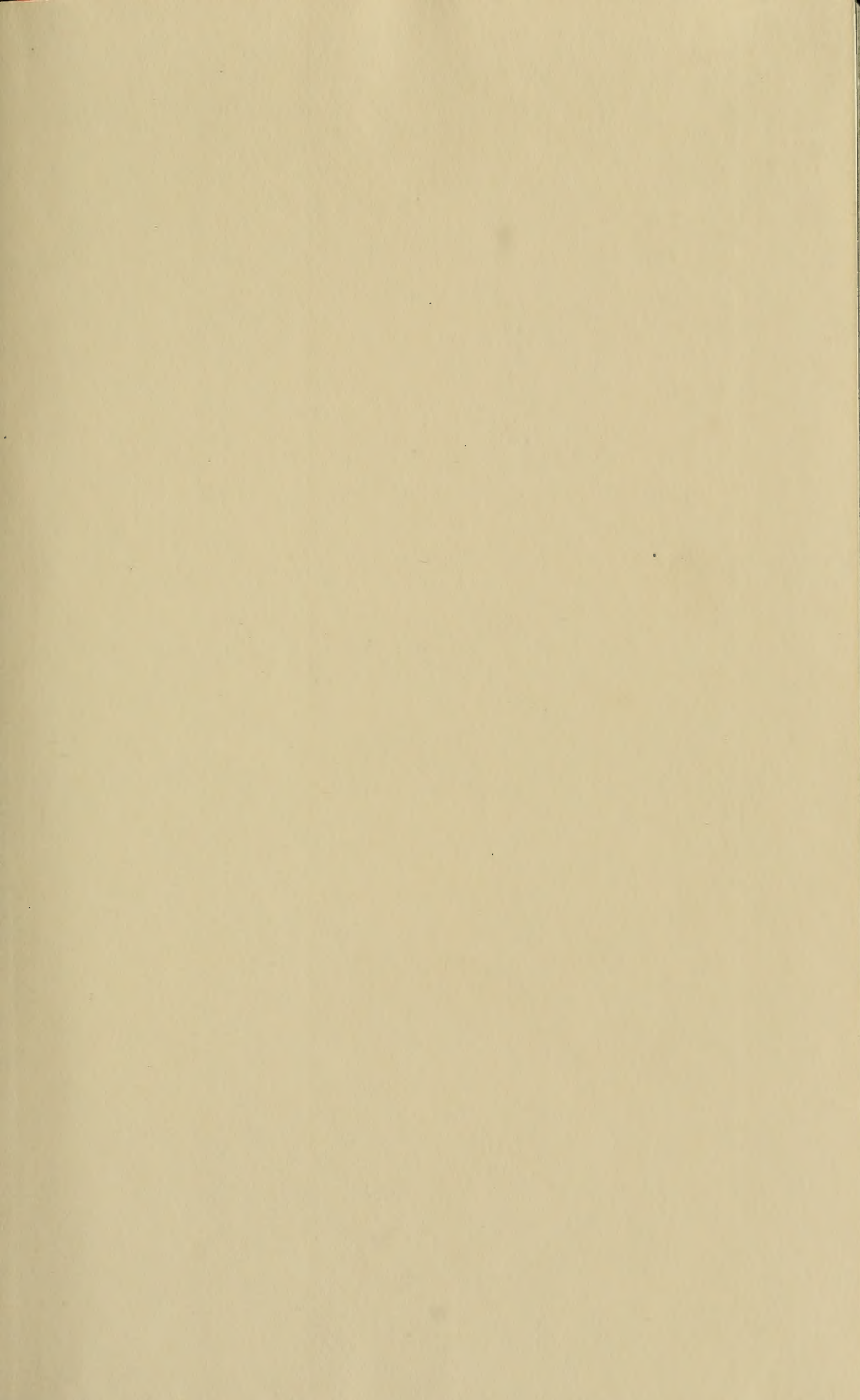
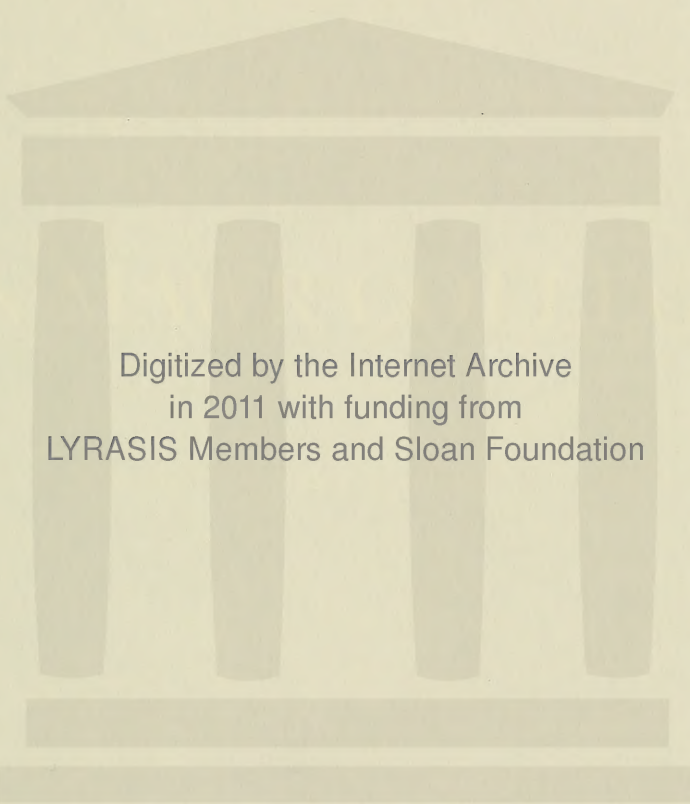
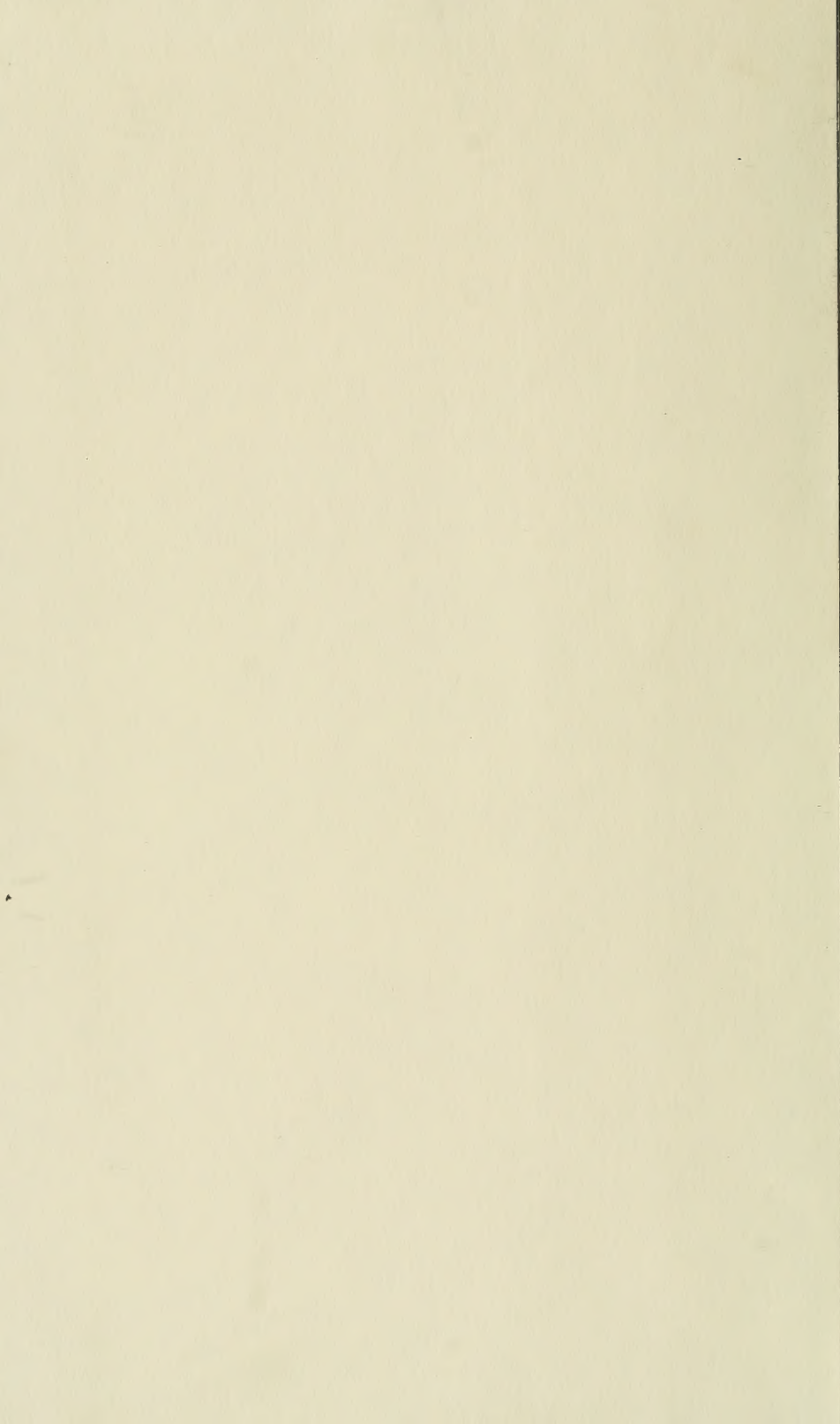


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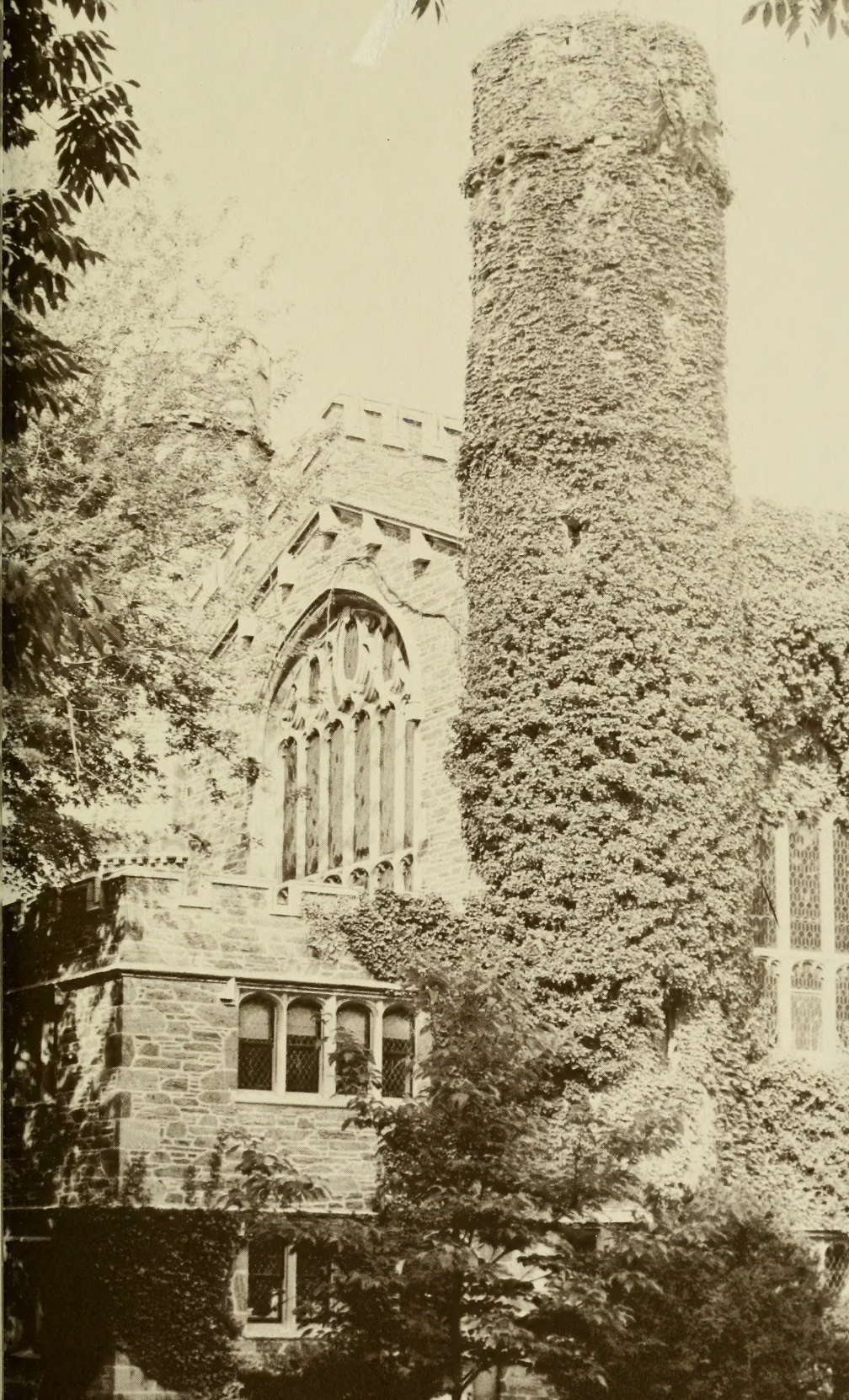




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THE GRADUATE
DEPARTMENT OF
SOCIAL WORK AND
SOCIAL RESEARCH
BRYN MAWR COLLEGE





Bulletin of the
Carola Woerishoffer
Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College

1963-1965

815 New Gulph Road
BRYN MAWR, PENNSYLVANIA

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Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, 815 New Gulph Road, Bryn Mawr College, Bryn Mawr, Pennsylvania.

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The Carola Woerishoffer Graduate Department of Social Work and Social Research offers professional education for practice in social work and for research. The basic two-year program leads to the degree of Master of Social Service, the advanced program to the degree of Doctor of Philosophy. In general, the program of the Department is intended for full-time study, but a few courses are open on a part-time basis to holders of a Master's degree in social work or its equivalent.

The curriculum of the Department is based upon the premise that preparation for social work requires a basic core of knowledge as well as skill in the application of this knowledge. A coordinated program of concurrent courses and field instruction is therefore provided in the Master's degree program. The Ph.D. program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular.

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ANGELA JOHNSTON BOYDEN
Alumnae Director, 1959-1964
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MARY HALE CHASE
Alumnae Director, 1961-1966
ELIZABETH CURRAN WARREN
Alumnae Director, 1962-1967
EDITH HARRIS WEST, *by invitation*
President of Alumnae Association

Advisory Committee for The Department of Social Work and Social Research

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CHARLES P. CELLA, JR.
H. FRANCIS DE LONE
J. GREY EMMONS
MRS. ALBERT M. GREENFIELD
THOMAS B. HARVEY
MRS. P. BRACKLEY HEPBURN
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Committees of the Faculty for the Graduate School

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DEAN BLISS, *Vice-Chairman*
MISS MARTI
MR. BERRY
MR. BITTERMAN
MR. SPRAGUE
MR. MITCHELL
MR. SCHNEIDER

The Graduate Scholarships Committee

DEAN BLISS, *Chairman*
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MR. LEBLANC
MR. KLINE (Semester II)
MR. CONNER
MR. SCHMIDT (Semester I)

Officers of the College

President of the College:

KATHARINE ELIZABETH MCBRIDE, PH.D., LL.D., L.H.D., Sc.D.

Office: Taylor Hall.

Dean of the Graduate School: ELEANOR A. BLISS, Sc.D.

Office: The Library.

Director, Graduate Department of Social Work and Social Research:

KATHERINE D. K. LOWER, Ph.D.

Office: 815 New Gulph Road.

College Physician: ELIZABETH HUMESTON, M.D.

Office: The Infirmary.

Director of Halls and Head Warden:

CHARLOTTE BRANDON HOWE, M.A.

Office: Rockefeller Hall.

Librarian: JANET MARGARET AGNEW, B.L.S., M.A.

Office: The Library.

Faculty and Teaching Staff

CAROLA WOERISHOFFER GRADUATE DEPARTMENT of SOCIAL WORK AND SOCIAL RESEARCH

KATHERINE D. K. LOWER, PH.D., *Professor of Social Work and Social Research and Director of the Department*

BERNARD ROSS, M.S.S.A., PH.D., *Professor of Social Work and Social Research*

LOUIS GOLDSTEIN, PH.D., *Associate Professor of Social Work and Social Research*

JEAN HARING, M.S.W., *Associate Professor of Social Work and Social Research*

HERTHA KRAUS, PH.D., *Carola Woerishoffer Associate Professor of Social Work and Social Research¹*

PHILIP LICHTENBERG, PH.D., *Associate Professor of Social Research*

EDMUND V. MECH, M.S.S., PH.D., *Associate Professor of Social Work and Social Research*

JEANNE POLLOCK, M.S.W., *Associate Professor of Social Work and Social Research*

MARTIN REIN, M.S.S.W., PH.D., *Associate Professor of Social Work and Social Research*

ROSE SEGAL, M.S., *Associate Professor of Social Work and Social Research*

¹ On sabbatical leave for the year, 1962-1963.

JANE C. KRONICK, PH.D., *Assistant Professor of Social Research*

WILLIAM W. VOSBURGH, PH.D., *Assistant Professor of Social Research*

PATRICIA R. MILLAR, M.S.S., *Instructor in Social Work*

RUTH O. STALLFORT, M.S., *Field Instruction Consultant*

DULCINE S. CHAPIN, M.S.S., *Field Instruction Consultant*

ELIZABETH L. PINNER, M.S.S., *Teaching Assistant*

RACHEL D. COX, PH.D., *Professor of Education and Psychology*

EUGENE V. SCHNEIDER, PH.D., *Associate Professor of Sociology*

ETHEL W. MAW, PH.D., *Assistant Professor of Education*

ELSIE S. BARTHOLOMEW, PH.D., *Special Lecturer in Social Research*

O. EUGENE BAUM, M.D., *Special Lecturer in Psychiatric Information*

ROBERT J. GAUKLER, M.D., *Special Lecturer in Psychiatric Information*

WALTER C. KLINGENSMITH, M.D., *Special Lecturer in Medical
Information*

JACK B. KREMENS, M.D., *Special Lecturer in Psychiatric Information*

RALPH ORMSBY, M.S.S.A., *Special Lecturer in Social Administration*

ROBERT C. PRALL, M.D., *Special Lecturer in Psychiatric Information*

RICHARD UHLIG, M.S.W., *Special Lecturer in Community Welfare
Research*

History of the Department

The Department was opened in the fall of 1915 in memory of Carola Woerishoffer, a graduate of Bryn Mawr College, who had devoted her brief life to improving social and working conditions and who, by her bequest to the College, made possible the introduction of new teaching and research in social welfare. The Department was first called the Carola Woerishoffer Graduate Department of Social Economy and Social Research. In 1957 the name was changed to the Carola Woerishoffer Graduate Department of Social Work and Social Research.

Under the first Director, Dr. Susan M. Kingsbury, four fields of study were initially offered — Social Casework, Community Organization, Industrial Relations, and Social and Industrial Investigation. As the curriculum became more specifically focussed on education for social work, certain fields of study, including Labor Economics, Sociology and Anthropology, were transferred to other departments of the College.

The program leading to the Ph.D. degree was developed with the founding of the Department in 1915. In response to the growing recognition of social work as a profession, the degree of Master of Social Service was substituted in 1947 for the Professional Certificate which had been granted up to this time to two-year students.

Men have been admitted to the Graduate Department of Social Work and School Research since 1939, shortly after the Graduate School was opened to men.

The Department, a charter member of the American Association of Schools of Social Work, is a constituent member of the Council on Social Work Education and an accredited graduate school of social work. In 1944 the Department was approved to offer a concentration in medical social work and, in 1954, in psychiatric social work. Since 1958 the Department has offered a concentration in community organization.

In 1958 a grant from the Dolfinger-McMahon Foundation established a research center for the purpose of bringing the techniques of the research scientist to the study of basic problems in social work.

In the same year, the Department moved into its present headquarters at 815 New Gulph Road, the property opposite Merion Gate. The building includes a lecture hall, seminar and conference rooms, offices, a library and the research center.

Admission

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record.¹ Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department.

A personal interview is arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. The Department may, at its discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment or admission fee of \$20 is to be paid to the Comptroller of Bryn Mawr College. If the student withdraws before June 15th, half the fee, namely \$10, will be refunded.

¹ Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.

TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester's work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. Students considering enrollment at the University should note that the academic year begins earlier than at Bryn Mawr. The University charges a small general fee for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Students who plan to take a course at the University should complete their Bryn Mawr registration and obtain their letters of introduction promptly.

Programs and Degrees

BRYN MAWR COLLEGE awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework, Community Organization and Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. In Community Organization preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, and Community Welfare Research. At the discretion of the faculty, a few second-year students will be allowed to concentrate in Social Work Research.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework, or community organization as the principal course in social work practice. The first-year courses are:

Social Welfare Policy and Services I and II
Human Growth and Behavior I and II
Community Organization I
Social Research
Social Casework I
Social Casework II or Community Organization II
Introduction to Statistical Concepts (non-credit)
Field Instruction

The courses in the second year are in part determined by the principal area of practice of the student:

Social and Cultural Concepts in Social Work Practice
Social Agency Administration
Social Issues and Social Policy
Psychanalytic Concepts in Social Work Practice
Social Group Work
Community Welfare Research
Community Organization III and IV
Social Casework III and IV
Field Instruction
Thesis Seminar

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The candidate for the Doctor of Philosophy degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program provides a basic preparation with which a person can enter one or several roles according to the changing needs and opportunities of social welfare and the changing interests and capabilities of the person. The curriculum includes the following areas of study:

- Social Welfare
- Theory in Social Work Practice
- Social and Behavioral Sciences
- Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives that are considered pertinent to individual interests, some of which may be taken in other departments within the College or at the University of Pennsylvania; and special experiences that are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. The Research Center of the Department provides special opportunities for social work research. Qualified students may participate in various phases of research in social work under the direction of members of the faculty engaged in the program of the Center.

General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department and to the Graduate Committee.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of their instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School within two weeks after entering the College. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for *one* semester. Description of other courses may be found in the Calendar of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I: Mr. Rein.

Consideration is given to the organization and growth of social welfare as a major social institution. From an historical and philosophical perspective, the influence of recent economic, social, and demographic trends upon social policy and the present organization of social welfare services are analyzed.

Social Welfare Policy and Services II: Mr. Rein.

The nature and scope of contemporary problems such as poverty, delinquency, and urban deterioration are analyzed. Competing and alternative theories concerning etiology and modes of intervention are specified, and present services are evaluated from this perspective.

Social Issues and Social Policy: Mrs. Lower and Visiting Lecturers.

Materials from selected fields are presented by prominent specialists, with attention to their implications for social policy. Among the fields considered are law, economics, public health, urban renewal and housing.

Human Growth and Behavior

Human Growth and Behavior I: Miss Segal, Miss Millar and Special Lecturers.

The development of the individual is presented through examination of the physical, social and psychological circumstances that affect the individual's potential for social functioning. The content emphasizes the opportunities and hazards of each phase of development and the adaptive patterns by which the potential for social functioning is realized or impeded. The course material is presented by a physician, a psychiatrist, a psychologist and a social worker.

Human Growth and Behavior II: Miss Segal, Miss Millar and Special
Lecturers.

This course is a continuation of Human Growth and Behavior I, and deals with the range of differences in social functioning. There is examination of physical and mental illness and their connection with impaired social functioning. Emphasis is given to the interrelated effects of illness on the individual, his family and the community, and to implications for treatment and prevention.

Psychoanalytic Concepts in Social Work Practice: Mr. Lichtenberg.

This course is designed to increase knowledge and understanding of the dynamics of behavior. Stress is placed upon concepts and orientations from psychoanalytic ego psychology that have special pertinence to social work practice.

Social and Cultural Concepts in Social Work Practice: Instructor to be
announced.

This course attempts to increase the student's understanding of the social foundations of individual and group behavior. Emphasis is upon those concepts and facts from social psychology, sociology and cultural anthropology that are especially useful in the practice of social work.

Social Work Practice

Social Casework I: Miss Haring, Mrs. Pollock.

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II: Miss Haring, Mrs. Pollock.

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.

Social Casework III: Miss Segal, Miss Millar.

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on

differential approaches to treatment as determined by differential social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields.

Social Casework IV: Miss Segal, Miss Millar.

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker. Current issues and trends in social casework are considered.

Community Organization I: Mr. Goldstein.

An introduction to community organization as a field of practice and as a social work method and process. This course undertakes to develop a theory of community derived from analysis of various concepts of community and to explore principles and roles of professional practice.

Community Organization II: Mr. Goldstein.

Elaboration of community organization as a method of social work. Consideration of theory related to such concepts as community forces, social change, decision-making, power structures and critical analysis of variables in functions and roles associated with professional practice in selected settings.

Community Organization III: Mr. Ross.

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered.

Community Organization IV: Mr. Ross.

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings. Community development is considered in relation to community organization.

Social Group Work: Mr. Goldstein.

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies: Mr. Ormsby.

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include the role of the board, policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations. Participants prepare administrative case studies.

Field Instruction I.

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester. Minimum requirement 450 hours.

Field Instruction II:

Taken collaterally with Casework III and IV, Community Organization III and IV, or Advanced Social Research. Requirement: three days per week, first and second semesters; 600 hours.

Social Research

Introduction to Statistical Concepts: Mrs. Kronick.

An introduction to the vocabulary and general concepts of statistics. This is a non-credit course and meets one hour per week.

Social Research: Mr. Vosburgh.

An introduction to social research. Within the framework of the principles of scientific method, this course emphasizes the logic of research procedures and the design of proof. The course aims to provide basic skills in formulation of problems and critical analysis of existing research. Concentration upon bodies of method relevant to social work problems.

Community Welfare Research: Mr. Uhlig.

Focuses on selected topics and issues in social welfare planning and research. Emphasis on functions of research departments in planning agencies, including such responsibilities as service statistics, need studies, priority studies, campaigning, budgeting and related problems in various fields of practice.

Thesis Seminar (two semesters) : Mr. Vosburgh and Faculty.

A Master's thesis is required of all candidates for the M.S.S. degree. The thesis may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a thesis seminar which meets as needed. No course credit is given for the thesis.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

I SOCIAL WELFARE

History and Philosophy of Social Welfare: Mr. Ross, Mr. Lichtenberg,
Mr. Rein.

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs.

Community Welfare Planning: Mr. Rein.

This seminar deals with planned change in social welfare, drawing on the disciplines of economics, political science, and sociology, as well as social work. Among the topics considered are: organization in social welfare, the goals and the relationships between these and the needs of individuals; the structures through which such organizations operate and the societal forces which affect their operation.

Community Mental Health: Mr. Lichtenberg.

Directions in community mental health services and programs are explored, with special study in the varieties of mental health services, roles, and practices under active development and research in the epidemiology of mental disorder.

II SOCIAL WORK PRACTICE

Advanced Casework Theory: Miss Haring, Miss Segal.

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on relation of pertinent research findings to current operating assumptions, gaps in knowledge and the present stage of theory building in social work.

Prerequisite: *Personality Theories and Social Work Practice.*

Theory in Community Organization: Mr. Ross.

A seminar to study current development of theory underpinning the professional practice of community organization for social welfare. Structure and process are considered; distinctions among philosophy, principles and theory are made. Applications to issues and trends in practice related to housing, urban renewal, community welfare planning, intergroup relations and mental health.

Supervision in Social Work: Miss Haring.

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

The seminar is designed for those with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

Social Administration: Instructor to be announced.

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions on the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

III SOCIAL AND BEHAVIORAL SCIENCES

Personality Theories and Social Work Practice: Mr. Lichtenberg.

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory: Mr. Lichtenberg.

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Science Concepts and Social Work Practice: Mr. Goldstein.

Selected theoretical approaches from sociology, social psychology, and anthropology are examined for their relevance and implications for social work practice. Students develop a particular conceptual frame-work from the social sciences and demonstrate its significance and application to social work practice.

Social Change: Mrs. Kronick.

An examination of major sociological theories of social change with specific attention to change in urban areas and resultant urban problems. Local problems are examined in terms of social change at the social level.

Concepts of Mental Health: Mr. Lichtenberg

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each theory are traced.

Formal Organizations: Mr. Vosburgh.

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

IV SOCIAL RESEARCH

Advanced Statistics (two semesters) : Mrs. Maw.

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Methodology in Social Research:

Mr. Mech, Mrs. Bartholomew.

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. In-

tensive coverage of survey research design. Case study and clinical method, and design of social experiments.

Current Research in Social Work: Mr. Mech.

Critical evaluation of selected research investigations in social work with respect to problem formulation, identification of variables, design and quantitative analysis, and relevance to theory development.

Demographic Analysis: Mrs. Kronick.

Demographic characteristics of the United States and their analysis are studied with principle attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research: Members of the Department.

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Courses in Related Departments in the Graduate School

Courses in related departments of the Graduate School may be elected as part of the student's program with the permission of the Department. Such courses should be integrated with the student's overall program and interests. Examples of such courses are:

Economics

- Comparative Economic Systems
- The Development of Underdeveloped Areas
- Government and Business
- Business Cycles and Full Employment

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Elementary School Counseling
- Developmental Psychology
- Research and Measurement in Education
and Child Development
- Adolescent Development

Political Science

- Problems of Public Administration
- The World Community and Law

Psychology

- Human Learning and Thinking
- Comparative Psychology
- Personality
- Measurement Perception
- Social Psychology
- Statistical Methods

Sociology

- Sociological Theory
- Social Institutions
- Industrial Sociology

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Field Instruction

FIELD INSTRUCTION is an integral part of certain courses. For each student in these courses, field instruction is arranged in an established social agency of good standards. The purpose of the field instruction is to supplement the class work, giving the student the opportunity to apply the knowledge gained in class and thus to deepen the knowledge and develop skill in its use. It is planned by the agency in such a way as to give content, sequence and progression in learning. The class sessions and the field instruction run concurrently in order to insure an integration of the content of the two. Except in unusual circumstances, the student is placed in a different agency during each year of field instruction.

The time allotted for field instruction is a minimum of 450 hours per year for first-year courses and 600 hours per year for second-year courses. In a typical program, this consists of field practice for first-year students of approximately 14 hours per week, from October through January, and 21 hours per week, from February through May; and for the second-year students, 21 hours per week for each of the two semesters. Individual arrangements may be worked out on the basis of agency and student needs.

The following agencies are in use as field instruction centers:

Allentown State Hospital, Social Service Department
Association for Jewish Children
Child Care Service of Delaware County
Child Guidance Center of Mercer County
Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Commission on Human Relations
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Episcopal Community Services
Family Service of Delaware County
Family Service of the Main Line Neighborhood

Family Service of Philadelphia, North District
 Family Service of Philadelphia, Northeast District
 Family Service of Philadelphia, South District
 Friends Committee on Race Relations
 Friends Neighborhood Guild
 Germantown Settlement
 Health and Welfare Council of Camden County and United Fund of
 Camden
 Health and Welfare Council, Inc., Delaware County District
 Health and Welfare Council, Inc., Philadelphia
 Health and Welfare Council, Inc., Research Department
 Hospital of the University of Pennsylvania, Department of Social
 Service
 Jefferson Medical College, Social Service Department
 Jewish Federation of Greater Philadelphia
 Lankenau Hospital, Child Guidance Clinic
 The Lighthouse
 Lutheran Social Mission Society
 Montgomery County Board of Assistance
 Montgomery County Mental Health Clinics, Inc.
 Neighborhood Centre
 Norristown State Hospital, Social Service Department
 Philadelphia County Board of Assistance
 Philadelphia Department of Public Welfare
 Philadelphia General Hospital, Adult Psychiatric Clinic
 Philadelphia General Hospital, Children's and Adolescent's Clinic
 Philadelphia State Hospital, Social Service Department
 Redevelopment Authority of Philadelphia
 Southeastern Pennsylvania Chapter, American Red Cross
 Southern Home for Children
 St. Christopher's Hospital, Child Psychiatry Clinic
 St. Martha's Settlement
 Temple University, Center for Community Studies
 Temple University Hospital
 United Fund of the Philadelphia Area
 University Settlements
 Veterans Administration Hospital, Social Service Department,
 Coatesville, Pennsylvania
 Y.W.C.A. of Philadelphia

The Research Center

THE RESEARCH CENTER of the Department of Social Work and Social Research was established in 1958 with the aid of a grant from the Dolfinger-McMahon Foundation of Philadelphia. The Center concentrates its work on the areas of new knowledge important as a result of the expanding scope and complexity of problems in social welfare.

The Center aims to foster contributions to the foundation knowledge of social work through the processes of research, training for research, and consultation. The staff and resources of the Center are devoted at any one time to a number of projects on different aspects of social welfare. Projects have been undertaken in such areas as adoption, the rehabilitation of stroke patients, dependency, demographic factors and social welfare services, and social work education.

The Center also provides an opportunity for student training at the advanced level through supervised units in research with faculty members engaged in Research Center projects. Funds are available from time to time for research assistantships for qualified advanced students.

Represented on the staff is a variety of interest and training in the social sciences and social welfare, thus bringing the research techniques and perspectives of related disciplines to bear upon social welfare problems.

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$1300 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is \$165 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field instruction are charged a fee of \$10 a semester for each such course taken during the academic year. This fee covers a part of the expenses of field supervision. In addition, students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

The graduation fee for Doctors of Philosophy and Masters of Social Service is \$20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Tuition Fee	\$1300
Residence Fee at Graduate Center (including health service)	1000
Dispensary Fee (for non-resident students)	15
Fee for Field Instruction Manual, Thesis Manual and other materials	5
Field Instruction Fee	20
Graduation Fee	20
Expenses, Christmas and spring vacations, commuting to field instruction, books	variable

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, dismissal or for any other reason.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

The Graduate Center

RESIDENCE for forty-five women graduate students is provided in the Graduate Center, which lies at the north end of the campus about an eight-minute walk from the Library¹. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five students, the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms — a large living room and the Manning-Smith recreation room — are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September 1st prevents some other student from ob-

¹ Residence in the Graduate Center is sometimes not convenient for students in field instruction because of regulations concerning meals and vacation periods. Students are advised to consider these factors in choosing living accommodations.

taining accommodation. Therefore, unless a student sends notice of withdrawal in writing to the Dean of the Graduate School before September 1st, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission or reduction is made if the College is able to reassign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In cases of absence from the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only — from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who are required to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

Student and Alumni Organizations

THE GRADUATE CLUB

All Resident Students in the Graduate School are members of the Graduate Club and non-residents may become members. The organization of the life of the graduate student in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the college as a whole. The Council of the Graduate Club considers policies relating particularly to the Graduate School.

STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

All Students in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work together closely to promote the objectives of the Department.

ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the development of the Department and its alumni. Activities of the Association include, a spring breakfast for students to be awarded the M.S.S. or the Ph.D. In addition, the Association makes available the Alumni Tuition Scholarship, to which applicants for admission from the Philadelphia area are eligible.

Officers for 1962-1963 are:

GOETZ MAYER, *President*

MISS FRANCES STONE, *First Vice President*

ABRAHAM H. TUCKER, *Second Vice President*

MISS JEAN H. SPARKMAN, *Recording Secretary*

SISTER GUNNEL STERNER, *Corresponding Secretary*

MISS JANE MOSEMAN, *Treasurer*

Fellowships and Scholarships

A VARIETY OF FINANCIAL RESOURCES is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to June 1st preceeding the academic year for which they are desired.

Application for fellowships and scholarships in the award of Bryn Mawr College should be made to the Director of the Department of Social Work and Social Research and must be filed *not later than February 1st* preceding the academic year for which they are desired. Awards are announced each year on April 1st. Original papers and documents, sent by applicants in support of their applications, can be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express. Letters from professors and instructors and other individuals are filed for reference.

All Fellows and Scholars must devote full time to graduate work, and pay tuition of \$1300 plus a field instruction fee of \$20. Scholars in their first year at Bryn Mawr must live at the Graduate Center. Others may elect to do so.

I. GENERAL FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value \$2800, and one or two scholarships, value \$2100. The fellowship is open to women who have completed a full year of graduate work. Scholarships are open to women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

The College has several scholarships of \$2100 which are open to men or women for study in any department.

Tuition scholarships, \$1300, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

II. MASTER'S DEGREE PROGRAM

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to \$2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation.

Agency awards are based upon financial need and professional promise for social work. The Department will aid the student in identifying assistance suited to his qualifications and needs.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania.

FEDERAL TRAINEESHIPS

The United States Public Health Service makes available to the Department traineeships for men or women with career goals in psychiatric social work. These traineeships are \$1800 plus tuition for first-year students and \$2000 plus tuition for second-year students.

The Office of Vocational Rehabilitation offers traineeships of \$1800 for first-year and \$2000 for second-year students. These grants are open to both men and women whose career objectives are in the field of rehabilitation.

A number of United States Public Health Service and Office of Vocational Rehabilitation traineeships is available to the Department and is allocated after acceptance for admission.

III. ADVANCED PROGRAM

Advanced traineeships of the United States Public Health Service are available for the doctoral program. These vary in amount from \$2400 to \$3600 plus tuition, depending upon the experience of the candidate and the year of training for which they are granted. These traineeships are awarded to applicants with the goal of the Ph.D. Degree and only for full-time study.

COMMUNITY WELFARE RESEARCH PROGRAM

A special training program for research in Community Welfare has been established in association with the Health and Welfare Council Inc. of Philadelphia. A limited number of stipends are available with the assistance of the Lilly Endowment, Inc. The amount of the stipend is determined by the student's qualifications and needs.

The goal of the program is to train selected and qualified students to fill research positions in planning councils and agencies. The program of study includes academic work and field instruction in the Research Department of the Health and Welfare Council, Inc. of Philadelphia. This program may be developed as part of a plan for work toward Master's degree or as a part of an advanced program.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

TEACHING ASSISTANTSHIP

A Teaching Assistantship provides a stipend of \$2200 plus one-half tuition. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time. The primary purpose of this Assistantship is to provide an advanced student with experience in preparation for a career in teaching.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value \$50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the student who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding \$150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed \$200, for tuition purposes may be made to students who are recommended by the Director of the Department of Social Work and Social Research.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

The Library

THE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH has its own Library and Reading Room including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

The M. Carey Thomas Library now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Room are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference.

Provision is made in the Quita Woodward Memorial Room for books for recreational reading. This collection, numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue, volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has a record of all books owned by the libraries of the region. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Health

CERTAIN HEALTH REQUIREMENTS must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within one year of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Resident students (those who live in the Graduate Center) must present a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria and the result of a Mantoux test, all done within one year of entrance. If the Mantoux test is reported positive, a chest X-ray is required. If these tests have not been completed when the student arrives in Bryn Mawr they will be done at the time of the initial physical examination at a fee of one dollar for each test.

Every resident graduate student must also file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every entering resident graduate student is examined by the physician of the college, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by the college physician are not re-examined. Any student, who at the time of the examination or at any time during the year, is not in good health, is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by the students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is necessary. The Infirmary is open when College is in session, and during the Spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the College physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

College Calendar

1962 - 1963

FIRST SEMESTER

1962

- | | | |
|-----------|-----|--|
| September | 20. | Graduate Center open to resident graduate students |
| | 20. | Registration period for graduate students begins |
| | 25. | Work of the 78th academic year begins |
| | 27. | Registration period for graduate students ends |
| November | 21. | Thanksgiving holiday begins after last class and ends at 9 A.M. the following Monday |
| December | 14. | Christmas vacation begins at 12:45 P.M. |

1963

- | | | |
|---------|-----|--|
| January | 3. | Christmas vacation ends at 9 A.M. |
| | 18. | Last day of lectures |
| | 21. | College examinations begin |
| | 30. | Registration period for graduate students begins |
| | 31. | College examinations end |

SECOND SEMESTER

- | | | |
|----------|-----|--|
| February | 4. | Work of the second semester begins |
| | 6. | Registration period for graduate students ends |
| March | 29. | Spring vacation begins after last class |
| April | 8. | Spring vacation ends at 9 A.M. |
| May | 17. | Last day of lectures |
| | 20. | College examinations begin |
| | 31. | College examinations end |
| June | 3. | Conferring of degrees and close of 78th year |

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates early in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

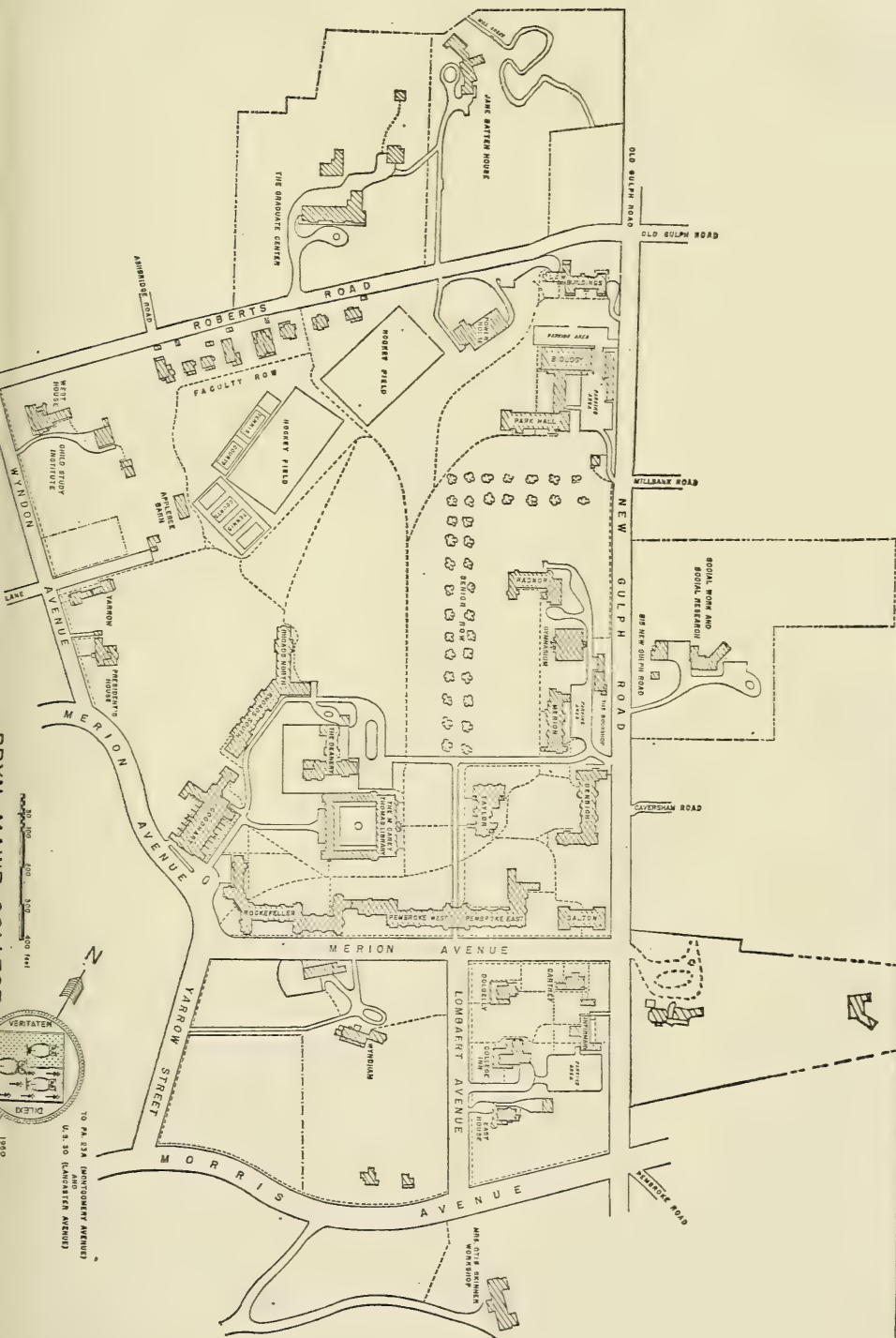
By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. No. 43) turning right at Pa. No. 23, which is 3.5 miles east of the toll gate; continue into Alternate No. 23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road. The entrance to the parking lot for registered students is at the College Inn.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To reach 815 New Gulph Road from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.



ILLUSTRATIONS:

The M. Carey Thomas Library

815 New Gulph Road

Taylor Hall

Air View of Bryn Mawr College



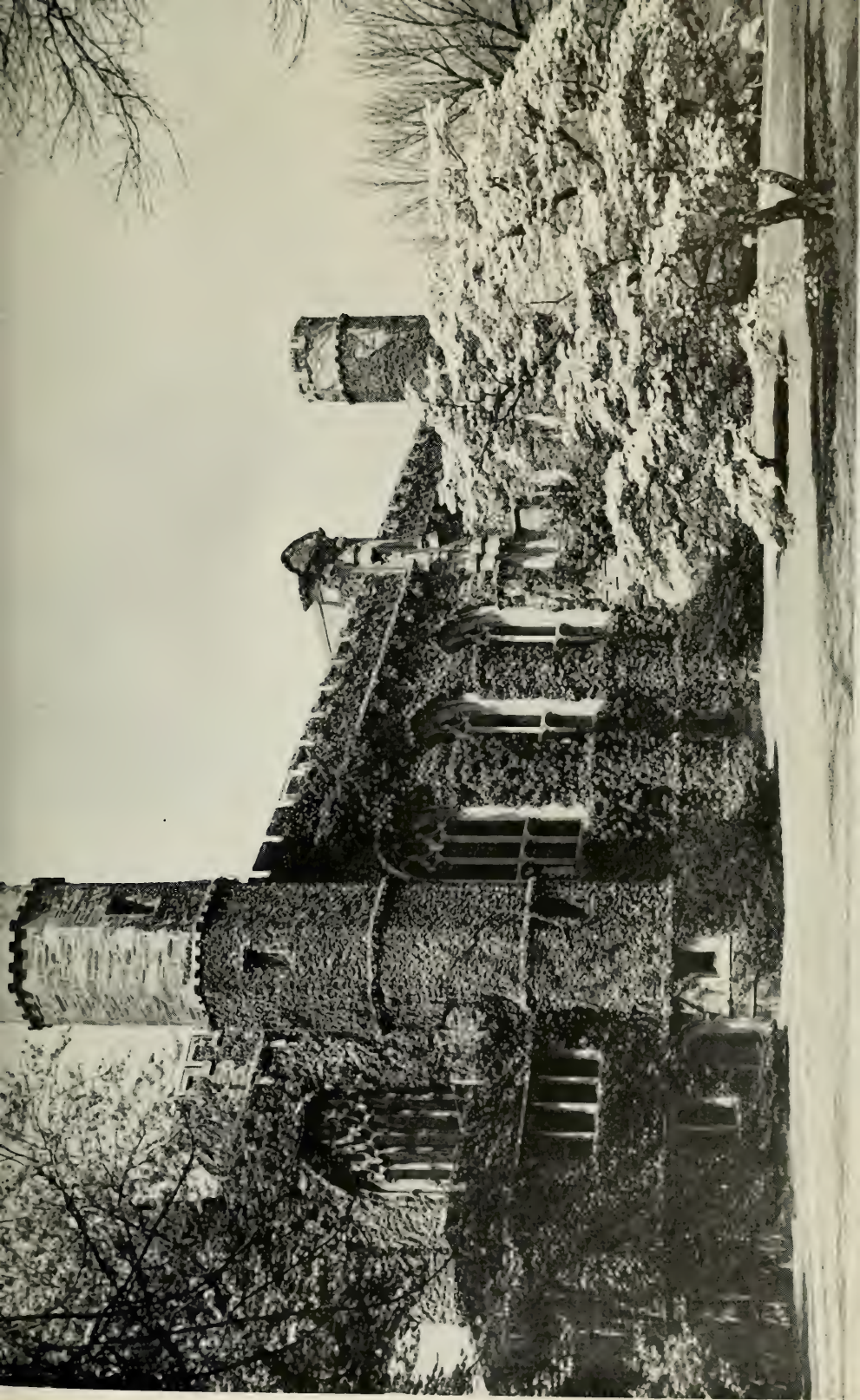


BRYN MAWR, PENNSYLVANIA

BRYN MAWR

COLLEGE CALENDAR

THE GRADUATE SCHOOL 1963-1964



THE M. CAREY THOMAS LIBRARY



THE GRADUATE CENTER

Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF

1963 • 1964



JULY 1963

Volume LVI

Number 2

1963	1964	1965
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15 16 17 18 19 20 21	15 16 17 18 19 20 21	14 15 16 17 18 19 20
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29 30	29 30 31	28 29 30 31
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BRYN MAWR COLLEGE CALENDAR, Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa.

Entered as second-class matter, May 28, 1940, at the post office, Bryn Mawr, Pennsylvania, under the Act of August 24, 1912

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Photographs: The M. Carey Thomas Library; The Graduate Center on Roberts Road.

College Calendar

The Graduate School 1963-1964

FIRST SEMESTER

1963

- September 13.* Final date for filing completed applications for admission to the Graduate School
- September 19.* Graduate Center opens to resident students
Registration period for graduate students begins
- September 24.* Work of 79th academic year begins at 9 A.M.
- September 26.* Registration period for graduate students ends
- September 28.* English test for foreign graduate students
- October 19.* French language examinations for graduate students
- October 26.* German language examinations for graduate students
- November 2.* Spanish, Italian, Russian and Statistics examinations for graduate students
- November 27.* Thanksgiving holiday begins after last class
- December 2.* Thanksgiving holiday ends at 9 A.M.
- December 18.* Christmas vacation begins at 12:45 P.M.

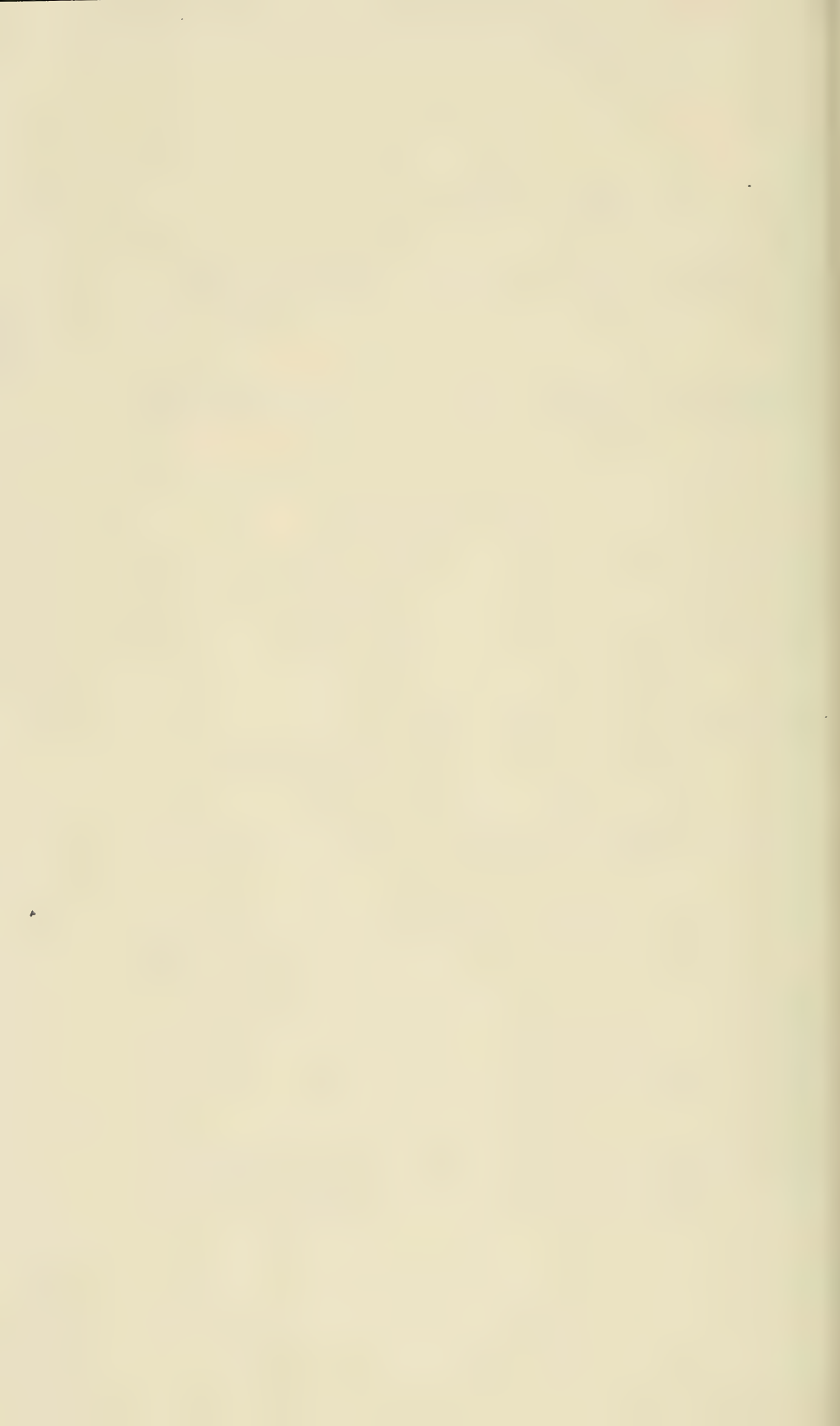
1964

- January 6.* Christmas vacation ends at 9 A.M.
- January 11.* Spanish, Italian, Russian and Statistics examinations for graduate students
- January 17.* Last day of lectures
- January 18.* German language examinations for graduate students

- January* 20. College examinations begin
- January* 24. Final date for filing completed applications for Semester II admission to the Graduate School
- January* 25. French language examinations for graduate students
- January* 29. Registration period for graduate students begins
- January* 30. College examinations end

SECOND SEMESTER

- February* 3. Work of the second semester begins at 9 A.M.
- February* 5. Registration period for graduate students ends
- March* 27. Spring vacation begins after last class
- April* 6. Spring vacation ends at 9 A.M.
- April* 10. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School Office
- April* 11. Spanish, Italian, Russian and Statistics examinations for graduate students
- April* 18. German language examinations for graduate students
- May* 1. Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School Office
- May* 2. French language examinations for graduate students
- May* 15. Last day of lectures
- May* 18. College examinations begin
- May* 29. College examinations end
- June* 1. Conferring of degrees and close of 79th academic year
- June* 9. Alumnae Day



Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880 and five years later the College opened. At the time of its founding not only was advanced education of a rigorous character difficult for women to obtain but graduate study as conceived at present was in its earliest stages. The lack of young women qualified to give the kind of instruction envisioned by the Founder led the first trustees to include in the plans for the "New College" the education of women right through to the Ph.D. Thus when Bryn Mawr College opened in 1885 it was with the first Graduate School for women and the first full graduate fellowships for women. The Graduate School from 1931 has admitted both men and women. Scholarships, fellowships and assistantships are available for both men and women.

The purpose of graduate work at Bryn Mawr is to prepare students for professional careers in which scholarship and research are fundamental requirements. To this end emphasis is placed on independent work and special opportunities are provided for study and research, in small seminars, under the guidance of members of the Faculty.

Graduate work leading to the M.A. and Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, the natural sciences and psychology, and in mediaeval studies. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the advanced program in this Department leads to the Ph.D.

In all departments fellowships and scholarships are offered to applicants who are highly qualified for the work they propose to do. In a number of departments teaching or research assistantships are also available. Canadians may apply for fellowships or scholarships on the same basis as students from the United States. Awards are made to students from overseas through the Marguerite N. Farley Fund and through teaching assistantships in French, German, Italian and Spanish.

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MARY HALE CHASE¹³

LELIA WOODRUFF STOKES⁵

Alumnae Director, 1961-1966

KATHARINE ELIZABETH MCBRIDE

ELIZABETH CURRAN WARREN¹⁴

Alumnae Director, 1962-1967

ELEANOR LITTLE ALDRICH⁶

MARY DUFFEE BROWN¹⁵

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DOREEN CANADAY SPITZER *by invitation*¹⁶

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Faculty and Staff

ACADEMIC YEAR, 1963-1964

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LL.D., L.H.D., Sc.D., *President of the College*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean
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DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean
of the College*

ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Director
of Admissions*

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to
the President*

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (Uni-
versity of Manitoba), *Head Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of
Physical Education*

RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Profes-
sor Emeritus of Classical Archaeology*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),
Professor Emeritus of Philosophy

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of
German Literature*

CHARLES GHEQUIÈRE FENWICK, PH.D. (Johns Hopkins University),
LL.D., *Professor Emeritus of Political Science*

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus
of Old French*

STEPHEN JOSEPH HERBEN, B.Litt., PH.D. (Princeton University),
Professor Emeritus of English Philology

MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor
Emeritus of German*

HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor
Emeritus of History*

- CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
- FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
- ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Professor Emeritus of English Literature*
- MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor Emeritus of Political Science*
- ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*
- THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*
- HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*
- ERNST BERLINER, PH.D. (Harvard University), W. Alton Jones *Professor of Chemistry*
- L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*
- MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Professor of Psychology*
- ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*
- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*
- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*
- JOSÉ MARÍA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*¹

1. On sabbatical leave for the year, 1963-1964.

Bryn Mawr College

- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*
- ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O. *Professor of Music*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*¹
- HUGUES LEBLANC, PH.D. (Harvard University), *Professor of Philosophy*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*²
- MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Professor of Classical and Near Eastern Archaeology*³
- AGNES KIRSOPP LAKE MICHEL, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHEL, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Professor of History of Art*

1. On sabbatical leave for the year, 1963-1964.

2. On leave of absence, semester I, 1963-1964.

3. On sabbatical leave, semester II, 1963-1964.

MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*

MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*

JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*

JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*

WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*

CAROLINE ROBBINS, PH.D. (University of London), *Marjorie Walter Goodhart Professor of History*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Professor of Social Work and Social Research*

K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and Political Theory*

ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*

EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*

PETER BACHRACH, PH.D. (Harvard University), *Associate Professor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*¹

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate Professor of English*

1. On leave of absence for the year, 1963-1964.

- DONALD ROBERT BROWN, PH.D. (University of California), *Associate Professor of Psychology*
- ROBERT L. CONNER, PH.D. (Indiana University), *Associate Professor of Biology*
- FREDERIC CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor of Mathematics*
- ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor of Russian, on joint appointment with Haverford College*
- ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate Professor of History*
- LOUIS GOLDSTEIN, PH.D. (University of Minnesota), *Associate Professor of Social Work and Social Research*
- RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Associate Professor of Psychology*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Associate Professor of French*¹
- JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Associate Professor of Social Work and Social Research*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Associate Professor of History*
- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Associate Professor of Political Science*
- GEORGE L. KLINE, PH.D. (Columbia University), *Associate Professor of Russian and Philosophy*
- GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B. (Yale University), *Associate Professor of Political Science*
- PHILIP LICHTENBERG, PH.D. (Western Reserve University), *Associate Professor of Social Research*

1. On sabbatical leave for semester II, 1963-1964.

- WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Associate Professor of English*
- MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*
- EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*
- JEANNE C. POLLOCK, M.S.W. (University of Pennsylvania School of Social Work), *Associate Professor of Social Work*
- JEAN A. POTTER, PH.D. (Yale University), *Associate Professor of Philosophy*
- JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*
- MARTIN REIN, M.S.S.W. (New York School of Social Work), PH.D. (Brandeis University), *Associate Professor of Social Work and Social Research*
- EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*
- CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*
- WILLIAM AUGUST WILSON, JR., M.D. (Yale University), PH.D. (University of California), *Associate Professor of Psychology*
- GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of Music*¹
- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor and Associate Professor-elect of Chemistry*²
- MYRA L. UHLFELDER, PH.D. (Bryn Mawr College), *Associate Professor-elect of Latin*

1. On leave of absence for the year, 1963-1964.

2. On sabbatical leave for the year, 1963-1964.

- JAMES H. BRODERICK, PH.D. (Harvard University), *Assistant Professor of English*
- ROBERT B. BURLIN, PH.D. (Yale University), *Assistant Professor of English*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- MARY MAPLES DUNN, PH.D. (Bryn Mawr College), *Assistant Professor of History*
- WILLIAM PAUL GANLEY, PH.D. (University of Buffalo), *Assistant Professor of Physics*
- WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Assistant Professor of Spanish*
- JANE COLLIER KRONICK, PH.D. (Yale University), *Assistant Professor of Social Work and Social Research*
- ETHEL MAW, PH.D. (University of Pennsylvania), *Assistant Professor of Education and Child Development*
- RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Assistant Professor of Russian*
- KYLE M. PHILLIPS, JR., PH.D. (Princeton University), *Assistant Professor of Classical and Near Eastern Archaeology*
- JEROME REGNIER, PH.D. (Columbia University), *Assistant Professor of Geology*
- BRUNILDE SISMONDO RIDGWAY, PH.D. (Bryn Mawr College), *Assistant Professor of Classical and Near Eastern Archaeology*
- HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor of German*
- WILLIAM Z. SHETTER, PH.D. (University of California), *Assistant Professor of German*
- BERNARD TOSCANI, PH.D. (University of Pennsylvania), *Assistant Professor of Italian and French*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*
- WILLIAM W. VOSBURGH, PH.D. (Yale University), *Assistant Professor of Social Work and Social Research*

JAY MARTIN ANDERSON, M.A. (Harvard University), *Assistant Professor-elect of Chemistry*

PATRICIA MILLAR BURLAND, M.S.S. (Bryn Mawr College), *Instructor and Assistant Professor-elect of Social Work and Social Research*

BARBARA MILLER LANE, PH.D. (Harvard University), *Lecturer and Assistant Professor-elect of History*

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer and Assistant Professor-elect of Education and Child Development*

ALAN SILVERA, PH.D. (Harvard University), *Lecturer and Assistant Professor-elect of History*

ELSIE BARTHOLOMEW, PH.D. (Radcliffe College), *Part-time Lecturer in Social Work*

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FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*

CARLOS BLANCO AGUINAGA, PH.D. (Johns Hopkins University), *Visiting Lecturer in Spanish for Semester II*

GALIA S. BODDE (Far Eastern University), *Part-time Lecturer in Russian*

ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Part-time Lecturer in English on the Theresa Helburn Fund and Director of the Theatre*

ISABELLE CAZEAUX, PH.D. (Columbia University), *Lecturer in Music*

SARAH C. FLEMISTER, PH.D. (Duke University), *Part-time Lecturer in Biology*

CHARLES FRYE, M.A. (University of Colorado), *Lecturer in Political Science*

ROBERT E. GAHRINGER, PH.D. (Harvard University), *Lecturer in Philosophy*

LEONARD BARRY GLICK, M.D. (University of Maryland School of Medicine), *Lecturer in Anthropology*

SHERMAN H. HAWKINS, PH.D. (Princeton University), *Visiting Lecturer in English*

- M. PAULINE JONES, M.A. (Middlebury College), *Lecturer in French*
- PHILIP KLEIN, PH.D. (Columbia University), *Visiting Lecturer in Social Work and Social Research*
- KATHRYN E. KOENIG, PH.D. (University of Michigan), *Lecturer in Psychology*
- STELLA KRAMRISCH, PH.D. (University of Vienna), *Visiting Lecturer in History of Art for Semester II*
- SHERMAN ROY KRUPP, PH.D. (University of California), *Lecturer in Economics*
- PIERRE A. MACKAY, M.A. (University of California), *Lecturer in Greek*
- JAMES B. PRITCHARD, PH.D. (University of Pennsylvania), *Visiting Lecturer in Classical and Near Eastern Archaeology for Semester I*
- CATHERINE RODGERS, PH.D. (Brown University), *Lecturer in English*
- MARVIN ROSEN, PH.D. (University of Pennsylvania), *Visiting Lecturer in Education*
- PHYLLIS TURNBULL, D. en F.L. (University of Madrid), *Lecturer in Spanish*
- ERIKA ROSSMAN BEHREND, A.M. (University of Pennsylvania), *Research Associate in Psychology*
- ADAM BEKIERKUNST, PH.D. (The University of Wroclaw), *Research Associate in Biology*
- GEORGE N. EAVES, PH.D. (Wayne State University), *Research Associate in Biology*
- LISELOTTE M. FREED, PH.D. (Columbia University), *Research Associate in Biology*
- JANICE TAYLOR GORDON, PH.D. (Bryn Mawr College), *Research Associate in Chemistry*
- DOROTHY S. SMYTHE, A.B. (Mount Holyoke College), *Research Associate in Biology*
- LARRY STEIN, PH.D. (University of Iowa), *Research Associate in Psychology*
- MARTHA HELSON WILSON, PH.D. (Yale University), *Research Associate in Psychology*

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- MIGUEL GONZÁLEZ-GERTH, M.A. (University of Texas), *Instructor in Spanish*
- LUBA HALAT, M.A. (Bryn Mawr College), *Part-time Instructor in Russian*
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- PETER JOHN LEACH, M.F.A. (Yale University), *Instructor in English*
- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*
- DORIS QUINN, M.A. (Oxford University), *Part-time Instructor in English*
- UN-JIN PAIK ZIMMERMAN, PH.D. (Bryn Mawr College), *Part-time Instructor in Chemistry*
- ELEANOR R. CEDERSTROM, A.B. (Smith College), *Part-time Instructor-elect in Greek*
- DOROTHY CORBETT, PH.D. (Harvard University), *Instructor-elect in History of Religion*
- ELLEN S. GINSBERG, M.A. (Northwestern University), *Instructor-elect in French*
- GERLINDE JORDAN (University of Munich), *Part-time Instructor-elect in German*
- SHELDON NODELMAN, M.A. (Yale University), *Instructor-elect in History of Art*
- ELIZABETH L. PINNER, M.S.W. (University of Pittsburgh), *Part-time Instructor-elect in Social Work and Social Research*
- T. LESLIE SHEAR, M.A. (Princeton University), *Part-time Instructor-elect in Classical and Near Eastern Archaeology for Semester II*
- THEODORA STILLWELL, A.B. (Bryn Mawr College), *Part-time Instructor-elect in Latin*

FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*

WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*

DAVID B. ARNOLD, B.S. (University of Pennsylvania), *Part-time Assistant in Chemistry*

ANN HARNWELL ASHMEAD, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*

E. JENNIFER ASHWORTH, B.A. (Cambridge University), *Part-time Assistant in Philosophy*

ELIZABETH BANCROFT, A.B. (Vassar College), *Part-time Assistant in English*

JEAN MARIE BARTHOLOMEW, A.B. (Eastern Baptist College), *Part-time Assistant in Chemistry*

PAUL A. BENOFKY, B.A. (Eastern Baptist College), *Part-time Assistant in Philosophy*

PAO-YU CHING, M.A. (Bryn Mawr College), *Part-time Assistant in Economics*

ALICE F. EMERSON, A.B. (Vassar College), *Part-time Assistant in Political Science*

STILES DEAN EZELL, JR., M.S. (Bryn Mawr College), *Part-time Assistant in Biology*

RICHARD S. GOOD, M.S. (Pennsylvania State University), *Part-time Assistant in Geology*

THOMAS HIGGINS, B.S. (St. Joseph's College), *Part-time Assistant in Physics*

JANE R. MCCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*

DAVID McDEVITT, M.A. (Bryn Mawr College), *Part-time Assistant in Biology*

JOAN L. MULLER, A.B. (Goucher College), *Part-time Assistant in Classical and Near Eastern Archaeology and in History of Art*

FRANCES C. PASCALE, A.B. (Albertus Magnus College), *Part-time Assistant in Mathematics*

SARAH A. RUBIN, M.A. (Bryn Mawr College), *Part-time Assistant in History*

WILLIAM SELLYEY, B.S. (Villanova University), *Part-time Assistant in Physics*

HIROKO SUE, M.A. (University of Tokyo), *Part-time Assistant in Sociology and Anthropology*

RAYMOND SWEENEY, JR., B.S. (St. Joseph's College), *Part-time Assistant in Physics*

HERBERT E. WYLEN, B.S. (University of Delaware), *Part-time Assistant in Physics*

Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

JULIE E. PAINTER, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*

CLARISSA WARDWELL PELL, *Director of the Resources Committee*

PATRICIA ONDERDONK PRUETT, M.A. (Bryn Mawr College), *Assistant Dean of the College*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

- DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*
- YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*
- ETHEL W. WHETSTONE, A.B.L.S. (University of North Carolina), *Librarian, Departmental Libraries*
- SHEILA M. CARSON, M.L.S. (Simmons College), *Assistant in Cataloguing Department*
- ELIZABETH C. E. GREENALL, M.L.S. (McGill University), *Assistant in Cataloguing Department*

Foreign Students

- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

- KATHERINE BAUBLIS, A.B. (Boston University), *Warden-elect*
- CAROLYN CROW, M.A. (University of California), *Warden-elect*
- JOAN CROWTHER, M.A. (Bryn Mawr College), *Warden-elect*
- MARGARET HEALY, M.A. (St. John's University), *Warden-elect*
- MARIE ELIZABETH HUBERT-RODIER, (University of Paris), *Warden-elect*
- JUDITH JHIRAD, M.S.S. (Smith College School of Social Work), *Senior Resident of the Graduate Center*
- MARY P. McPHERSON, M.A. (University of Delaware), *Warden-elect*
- JULIA JANE NASH, M.A. (University of Pennsylvania), *Warden-elect*
- HELGA PILLWEIN, B.S. (St. Joseph's College), *Warden-elect*
- MARÍA ROBLEDÓ, A.B. (College of William and Mary), *Warden-elect*
- BARBARA SHOEMAKER, A.B. (Bryn Mawr College), *Warden-elect*

Health

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

LOUISE BRUNK, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

JEANNE MURRAY, M.S.W. (University of Washington), *Social Caseworker*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

- LELIA BRODERSEN, M.A. (Temple University), *Psychologist*
 ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*
 ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*
 CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
 ELI HARMON, M.D. (Tulane University School of Medicine), *Consulting Psychiatrist*
 JONAS B. ROBITSCHER, M.D. (George Washington University), *Consulting Psychiatrist*
 HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
 BONNIE T. HOREN, A.B. (Bryn Mawr College), *Assistant in Psychology*

Phebe Anna Thorne School

- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*
 ANITA POOLE MILLER, M.A. (Drexel Institute), *Head Teacher*
 JOAN H. FRASER, B.S. (Northwestern University), *Assistant Teacher*

Committees

The Graduate Committee

- PRESIDENT MCBRIDE,
Chairman
 DEAN BLISS, *Vice-Chairman*
 MR. GUGGENHEIM
 MR. BITTERMAN
 MR. MITCHELL
 MR. SCHNEIDER
 MR. BERLINER
 MRS. LOWER

The Graduate Scholarships Committee

- DEAN BLISS, *Chairman*
 PRESIDENT MCBRIDE, *ex-officio*
 MR. KLINE
 MR. CONNER
 MR. BERTHOFF

The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts and sciences, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college. Applications should be filed, complete, by the dates specified on pages 2 and 3.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain undergraduate courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. (See requirement in the Department of Education and Child Development.) Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, Educational Testing Service, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Dean of the Graduate School each semester during the registration period. Changes in registration require the approval of the Dean.

Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (usually not more than six hours a week) and time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have ample opportunity for conference and discussion.

Seminars and graduate courses are described under the announcements of the Departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by a member of the faculty but carried on independently by the student. Such work may consist of reading with selected reports, research with results submitted or a combination of both.
2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Such undergraduate courses are listed with the graduate courses in this Calendar.

Journal Clubs and Colloquia. In many departments the members of the faculty and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

Prerequisites. The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a small general fee for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the members of the faculty. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.
2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates

who have held academic appointments at Bryn Mawr College and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required.

Students whose mother tongue is not English may, with the approval of their department, be excused from one of these language examinations. (They may not offer their own language.)

THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, for a well-prepared candidate, requires a minimum of a full year of graduate study. Work for the degree may be spread over several academic years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate's major subject and allied fields as the various departments shall require.

Application. The candidate applying for the degree in the department of the major work must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December 1st of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics and Education may offer Statistics instead of the second language. In Psychology and Sociology, Statistics is required and the language requirement is reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

The language requirement is met by passing a written examination set by the major department in reading, at sight and with a dictionary, technical material in the candidate's major field.

Examinations in languages, and in the techniques which in certain departments may be substituted for one language, are held three times each year, in October, January and April. At

* See the statements under the Departments for the departmental language requirements.

least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless both examinations have been passed by the January examination period, or, in special cases approved by the major department and the Graduate Committee, permission has been obtained to postpone one until the April period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

Only one of these language examinations is required of students whose mother tongue is not English. Instead of a second, they will be asked to take an examination in English at the beginning of the academic year. Later in the first semester the students' departments will be asked to certify that their knowledge of English meets the departmental requirement. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their language proficiency is inadequate.

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take three units of work in one major department or two in a major department and one in an allied field. Candi-

* They may not offer their own language.

Foreign students in the Department of Psychology will meet the requirement with Statistics; students in the Department of Education may do so if they prefer; students in the Department of Sociology may do so if their native language is French or German.

dates whose major department conducts a Journal Club or Colloquium are expected to include it in their registration.

Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework, Community Organization and Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. In Community Organization preparation is provided for

Community Welfare Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations and Community Welfare Research. At the discretion of the faculty, a few second-year students will be allowed to concentrate in Social Work Research.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college or university of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or in the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:

- Social Welfare Policy and Services I and II
- Human Growth and Behavior I and II
- Community Organization I
- Social Research
- Social Casework I
- Social Casework II or Community Organization II
- Introduction to Statistical Concepts (non-credit)
- Field Instruction

The courses in the second year are in part determined by the principal area of practice of the student:

- Social and Cultural Concepts in Social Work Practice
- Social Agency Administration
- Social Issues and Social Policy
- Psychoanalytic Concepts in Social Work Practice
- Social Group Work
- Community Welfare Research
- Community Organization III and IV
- Social Casework III and IV
- Field Instruction
- Thesis Seminar

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

Special Part-time Program. It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

RESEARCH IN COMMUNITY WELFARE

With the assistance of a grant from the Lilly Endowment, Inc. an advanced program to train students for community welfare research was established in the fall of 1960. Associated with the Department in this program is the Health and Welfare Council, Inc., Philadelphia.

The goal of the program is to prepare qualified professional personnel for research positions in community welfare planning councils. The program includes concurrent graduate study and field instruction in the Research Department of the Health and Welfare Council, Inc., Philadelphia.

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$1300 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$450 a year or \$225 a semester. In the Department of Social Work and Social Research the part-time fee is \$350 per course per year—or \$165 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work and Social Research are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$10 per course per semester, or \$25 per semester for three courses.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee\$1300

Residence (including health service) 1000

Contingent

Dispensary Fee (for non-resident students) 15

Social Work Field Instruction Fee 20

Graduation Fee 20

Expenses, Christmas and spring vacations,
commuting variableLaboratory Fees for undergraduate courses (not for grad-
uate credit), per course per year 20

THE GRADUATE CENTER

Residence for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there. The bedrooms are fully furnished except for curtains and rugs. Bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.*

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to

* Students applying for residence in the Graduate Center are asked to submit reports of recent medical examinations. See pp. 51-52.

reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from the College for six weeks or more because of illness will also be granted a proportionate reduction for food. Allowance cannot be made for dietary restrictions.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second.

Residence in the Center is for the academic year only—from the opening of college in the fall until Commencement Day. One of the residence halls will be kept open during Christmas and spring vacations where students may live for a small charge. Baggage will not be accepted at the College before September 15. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students, men or women, may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth.

Completed applications for scholarships for foreign women must be received not later than January twenty-fifth. The applicants will be informed of the action taken early in March.

FELLOWSHIPS

Twenty-three Fellowships, value \$2800 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Russian, Social Work and Social Research (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

The Theodore N. Ely Fund. An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling. The income on this fund is to be used for graduate scholarships and fellowships.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate Fellowship in honor of Katharine Elizabeth McBride, President of the College, was established by gifts from a few friends of Miss McBride among the alumnae.

The Max Richter Fellowships in Political Science. One or more Fellowships, through the income of the Max Richter Fellowship Fund, are awarded as teaching fellowships or fellowships for study and research to advanced students interested in political affairs.

Fellows by Courtesy

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value \$2100 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value \$2100 each, to men. Tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of \$2300 which covers full tuition and residence in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

The Marguerite N. Farley Scholarships for Foreign Women. Five foreign scholarships, of the value of \$2300, are offered to women from any country outside the United States and Canada.

A Special British Scholarship, of the value of \$2300, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$2400 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has

been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Scholarships of \$2100 each are open to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in a field that includes both of them.

Scholarships may also be awarded to students planning to specialize in one science only, but desiring further training in a related science. Students who wish to begin preparation in one or more of the natural sciences are also eligible for scholarships and on this plan such students, who are essentially taking a "Fifth-Year" of undergraduate work, are considered special graduate students whose program will not lead to a higher degree in their first year in the Graduate School.

Two fellowships of the value of \$2800 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$1300 a year. For residence in the Graduate Center an additional \$1000 would be charged.

When appropriate a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for a specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women.

The Helen Schaeffer Huff Memorial Research Fellowship. This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

SOCIAL WORK AND SOCIAL RESEARCH

The Carola Woerishoffer Fellowship in Social Work and Social Research, of \$2800, is offered annually to a student in the Department.

The Carola Woerishoffer Scholarship in Social Work and Social Research, of \$2100, is offered annually to a student in the Department.

Agency Fellowships and Scholarships. A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Vocational Rehabilitation Administration offers traineeships of \$1800 and \$2000 (plus the cost of tuition) for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation. Traineeships of \$2400 for the third year and \$3600 for the fourth year of study (plus the cost of tuition) are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November first of the year preceding the proposed year of study.

Both local agency stipends and federal traineeships are awarded to the student by the Department.

The Alumni Association of the Department of Social Work and Social Research usually provides a tuition scholarship open to either first- or second-year students.

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

TRAVELLING FELLOWSHIPS

The Fanny Bullock Workman Fellowship, value \$2500-\$2600, for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of

study and residence for one year at German university. It is awarded annually on the basis of evidence regarding ability to conduct independent investigations in the fields of Teutonic Philology or German Literature to a candidate who has completed at least one year of graduate study at Bryn Mawr College. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

REGULATIONS FOR FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships may be asked to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on the fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.

EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the U.S.A. or in a foreign country.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$400, are given on the basis of need to holders of scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April fifteenth.

GRADUATE ASSISTANTSHIPS

Teaching Assistantships are available to graduate students in the Departments of Biology, Chemistry, Education, Geology, Physics, Psychology and Social Work. The positions carry salaries of \$2100-\$2300 for half-time work (\$1400-\$1550 for one-third) and include free tuition for half to two-thirds time graduate work. They provide teaching and laboratory experience outside the classroom, mainly in the undergraduate laboratories.

Research Assistantships are available in Chemistry, Physics, Psychology and Social Work. These are usually for half-time work and provide half-time free tuition in addition to salaries of \$2100-\$2300.

Other Assistantships, usually for one-third time work and paying \$1400-\$1550, are offered in the Departments of Economics, Education, History, History of Art, Mathematics, Philosophy, Political Science, and Sociology and Anthropology. The duties of assistants differ in different departments. In all departments, the assistant is entitled to carry on graduate study for which tuition is remitted.

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
 - a. To students coming from New Jersey.
 - b. To students coming from Missouri.
 - c. To students coming from any other location who have had not less than one year of residence at the College.
2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn

Mawr College, or by a Committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

MEMORIAL LOAN FUNDS

The Bertha Goldstein Memorial Loan Fund, the Rachel Pflaum Memorial Loan Fund and the Ethel Rupert Loan Fund are revolving funds from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans may be made to graduate students in that Department. Loans are made without interest and must be repaid within one year after completion of study at Bryn Mawr.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; gives assistance in choosing a vocation; and acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers, placement offices of other colleges, and employment agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment in this country.

The Library

THE M. CAREY THOMAS LIBRARY containing about 300,000 volumes has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 50.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediaeval Library and consisting mainly of philosophical and theological works printed in the fifteenth century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in the region by which research workers are aided in bibliographical

problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

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ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-39, 1946-47) with the Department of Archaeology. She also has given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

Laboratories

THE natural science departments occupy three buildings. Mathematics, Physics and Psychology are in Dalton Hall, the original science building. The Science Center contains the Marion Edwards Park building for Chemistry and Geology and a building completed in 1958, for Biology. A building for the Physical Sciences, now under construction, will bring five of the departments together in late 1964.

In all three buildings there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In Dalton Hall, there is a machine shop with an expert machinist in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

A Computing Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment, available for the use of students and faculty of both colleges.

Each science department has its own well-stocked library, which includes the appropriate scientific journals. In addition, the Department of Geology has over 25,000 maps, on deposit from the U. S. Army Map Service. The Department's large collection of minerals has been greatly enhanced by the gift of the Mineral Collection of George Vaux, Jr.

Health

THE INFIRMARY

THE COLLEGE maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary the student must meet the expense. The Infirmary is open when college is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven-day period the fee is \$9 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet this expense.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the college physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

Every entering resident graduate student is examined by the college physician, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by a college physician are not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College reserves the right, if members of the family can-

not be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

CERTIFICATES REQUIRED

All graduate students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entrance to the Graduate School and exhibited a typical or immune reaction to this vaccination. Resident students who do not have this certificate will be vaccinated at the time of their entrance physical examinations and charged a fee of one dollar. Non-residents will not be permitted to register without this certificate. There is no exception to this rule.

In addition to the above, students applying for residence in the Graduate Center are asked to submit reports of recent medical and ophthalmological examinations signed by the appropriate physicians, evidence of a negative Schick test or immunization against diphtheria and of immunization against tetanus by toxoid, and a Mantoux test. In case the Mantoux test is positive, a chest X-ray is required. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done at the time of the initial physical examination at the student's expense.

INSURANCE

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Announcement of Courses

1963-1964

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students.

Square brackets enclosing the titles of courses indicate that, although the courses are regular parts of the program, they are not given in the current year.

Undergraduate courses in each department are numbered according to the following system: 301, 302, etc. indicate advanced undergraduate courses; the letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D.,
Chairman

L. JOE BERRY, PH.D.

JANE M. OPPENHEIMER, PH.D.

DEAN OF THE GRADUATE

SCHOOL AND PROFESSOR: ELEANOR A. BLISS, SC.D.

ASSOCIATE PROFESSOR:

ROBERT L. CONNER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Biology, Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cytology, Experimental Embryology or Physiology but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The

Final Examination consists of a three-hour written examination covering the areas of study and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

SEMINARS AND GRADUATE COURSES

All advanced undergraduate courses may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr. Conner: *Biochemistry* (offered in 1964-65)

Selected topics in intermediary metabolism.

Biochemical techniques.

Cellular Physiology.

Miss Gardiner: *Cytology* (offered in 1964-65)

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology* (offered in 1963-64)

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

Mr. Berry: *Physiology* (offered in 1963-64)

Kinetics of biological reactions.

Mechanisms of defense against infectious diseases.

Physiological techniques.

Physiology of micro-organisms.

Bacteriology

Miss Bliss: *Bacteriology* (Semester I)

Bacteria and antibacterial agents.

ADVANCED UNDERGRADUATE COURSES

301. *Theories of Heredity*: Miss Gardiner.

[302. *Developmental Physiology*: Miss Oppenheimer.]

[303. *Physiology of Micro-organisms*: Mr. Berry.]

305. *Biochemistry*: Mr. Conner.

Chemistry

PROFESSOR:

ERNST BERLINER, PH.D., *Chairman*

ASSOCIATE PROFESSORS:

FRANK B. MALLORY, PH.D.¹

GEORGE L. ZIMMERMAN, PH.D.

ASSISTANT PROFESSORS:

JAY MARTIN ANDERSON, M.A.

JOSEPH VARIMBI, PH.D.

LECTURER:

FRANCES BONDHUS BERLINER, PH.D.

INSTRUCTOR:

UN-JIN PAIK ZIMMERMAN, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students may specialize in either Organic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics.

1. On sabbatical leave for the year 1963-1964.

Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the M.A. or Ph.D must offer German, and either French or Russian.

Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated

within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Anderson: *Physical Chemistry*

Mr. Berliner: *Organic Chemistry*

Physical Organic Chemistry.

Physical-Organic Aspects of Aromatic Chemistry.

Structure and Physical Properties of Organic Compounds.

Mrs. Berliner: *Organic Chemistry*

Chemistry of Heterocyclic Compounds.

Natural Products.

Mr. Mallory: *Organic Chemistry*

Organic Photochemistry.

Radical Reactions.

Recent Methods in Organic Synthesis.

Mr. Varimbi: *Inorganic and Physical Chemistry*

Inorganic Chemistry.

Statistical Thermodynamics.

Theory of Solutions.

Mr. Zimmerman: *Physical Chemistry*

Chemical Kinetics.

Introduction to Chemical Physics.

Quantum Theory.

Biochemistry: See under Biology.

SELECTED UNDERGRADUATE COURSES

301b. *Inorganic Chemistry*: Mr. Varimbi.

302 [a and b]. *Advanced Organic Chemistry*: Mr. Berliner and Mrs. Berliner.

303a. *Chemical Thermodynamics*: Mr. Anderson.

303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Zimmerman.

304a. *Applied Mathematics for Chemists*: Mrs. Zimmerman.

305b. *Advanced Inorganic Chemistry*.

Colloquium. All members of the Department and the graduate students, and often outside speakers, meet every week to discuss current research in chemistry.

Classical and Near Eastern Archaeology

PROFESSOR:	MACHTELD JOHANNA MELLINK, Ph.D. ¹ , <i>Chairman</i>
ASSISTANT PROFESSORS:	KYLE M. PHILLIPS, JR., Ph.D. BRUNILDE S. RIDGWAY, Ph.D.
VISITING LECTURER:	JAMES B. PRITCHARD, Ph.D.
INSTRUCTOR:	T. LESLIE SHEAR, M.A.
RIEGEL MUSEUM ASSISTANT:	ANN HARNWELL ASHMEAD, Ph.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

Allied Subjects: Greek and Latin Language and Literature; an ancient Near Eastern Language and Literature; History of Art; Ancient History; Anthropology; a science integrated with the work of the major subject.

Language Requirements. German and one other modern language for the M.A.; for the Ph.D., a thorough reading knowledge of German, a reading knowledge of a second foreign language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have a general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, architecture,

1. On sabbatical leave for semester II, 1963-1964.

monumental painting, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, aspects of Near Eastern archaeology. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this is included in the final oral examination.

Excavations. The next excavation project as part of the graduate program of the Department will be an investigation of the Bronze Age habitation of Southwestern Anatolia (more specifically ancient Lycia) and will start in the fall of 1963.

Advanced graduate students will be invited to participate in this program which will be run as a field seminar during the first semester. The program will provide instruction in excavation techniques combined with the study of Bronze Age problems in the Aegean. Publication of the excavation results will be prepared on the basis of the joint field reports by the participants at the end of each season.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the courses in Classical Archaeology offered by the University. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss Mellink:

Field seminar in Aegean and Anatolian Archaeology.
(Excavations in Lycia, semester I).

Mrs. Ridgway: *Greek Sculpture of the Fourth Century B.C.*

Mr. Phillips: *The Greek Cities in Southern Italy.*

Mr. Shear: *Mycenaean Architecture* (semester II).

ADVANCED UNDERGRADUATE COURSES

201a. *Egypt and Mesopotamia:* Mr. Pritchard.

201b. *Aegean Archaeology:* Mr. Shear.

202b. *Ancient Greek Cities and Sanctuaries:* Mrs. Ridgway.

203a. *Greek Sculpture:* Mrs. Ridgway.

203b. *Later Greek and Roman Sculpture:* Mr. Phillips.

301a. *Greek Vase-Painting:* Mr. Phillips.

301b. *Ancient Architecture:* Mrs. Ridgway.

[303. *Anatolian and Syrian Archaeology:* Miss Mellink.]

304a. *Ancient Monumental Painting:* Mr. Phillips.

Comparative Philology and Linguistics

PROFESSOR OF ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

VISITING PROFESSOR

OF FRENCH:

WILLIAM J. ROACH, PH.D.

ASSISTANT PROFESSOR

OF ENGLISH:

ROBERT B. BURLIN, PH.D.

ASSISTANT PROFESSOR

OF GERMAN:

WILLIAM Z. SHETTER, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject.

Prerequisites. The prerequisite is a good undergraduate major in any language or literature. For courses in Philology, see statements under the Departments of English, French, German, Italian and Spanish.

Economics

PROFESSORS:

MILDRED B. NORTHROP, PH.D.,

Chairman

JOSHUA C. HUBBARD, PH.D.

ASSOCIATE PROFESSOR:

MORTON S. BARATZ, PH. D.¹

LECTURER:

SHERMAN ROY KRUPP, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Allied Subjects. Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics.

Language Requirements. For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and advanced statistics or mathematical economics.

1. On leave of absence for the year 1963-1964.

Program and Examination for the M.A. The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and The History of Economic Thought. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study.

Miss Northrop:

Comparative Economic Systems.
The Development of Underdeveloped Areas.
The History of Economic Thought.
International Economics.

Mr. Hubbard:

Business Cycles and Full Employment.
Contemporary Economic Theory.
Economic Dynamics.
Money and Banking.

Mr. Baratz:

Government and Business.
Industrial Structure and Market Behavior.
Prices and Price Theory.

SELECTED UNDERGRADUATE COURSES

- [301a. *History of Economic Thought*: Miss Northrop.]
- 301b. *Contemporary Economic Thought*: Mr. Hubbard.
- 302a. *Comparative Economic Systems*: Miss Northrop.

Journal Club. Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, or recent books or projects of interest.

Education and Child Development

PRESIDENT OF THE
COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., SC.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

ASSISTANT PROFESSOR
AND DIRECTOR,

THORNE SCHOOL: SUSAN E. MAXFIELD, M.S.

ASSISTANT PROFESSOR: ETHEL W. MAW, PH.D.

LECTURER: MARVIN ROSEN, PH.D.

ASSISTANT: LELIA BRODERSEN, M.A.

ASSOCIATE PROFESSORS
OF SOCIAL WORK AND
SOCIAL RESEARCH:

JEAN D. HARING, M.A., M.S.W.

JEANNE C. POLLOCK, M.S.W.

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology, school counseling and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. A sequence leading to specialization in elementary school counseling with supervised field work in selected schools is open to qualified students. Under the reciprocal plan with the University of Pennsylvania (see page 27) the equivalent of one seminar may be taken at that institution.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German, for the Ph.D.; candidates for the M.A. must either (1) pass examinations in French and German or (2) pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although one of three may be taken in an allied field. The Final Examination consists of two three-hour written examinations, one in each field offered, and a one-hour oral examination.

Examination for the Ph.D. The Preliminary Examination consists of four written examinations, one of which may be in an allied field, and an oral examination on the dissertation.

THE PHEBE ANNA THORNE SCHOOL AND THE CHILD STUDY INSTITUTE

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early school development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate in the work at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

The American School.

Mrs. Cox:

**Advanced Clinical Evaluation (including the Projective Techniques).*

Elementary School Counseling.

Problems of Child Development.

Adolescent Development.

Miss Maxfield:

**Developmental Psychology.*

**Early Childhood Education.*

**Growth and Learning in the Kindergarten.*

Mrs. Maw:

Educational Psychology.

Curriculum of the Elementary School.

History and Philosophy of Education.

**Research and Measurement in Education and Child Development.*

Mr. Rosen:

**The Psychology of Exceptional Children.*

**Diagnosis and Treatment of Learning Problems.*

The School as a Social Institution.

* Laboratory practice required.

Mrs. Pollock and Miss Haring:

Social Case Work—(given in cooperation with the Department of Social Work and Social Research.)

Supervised counseling experience in the public school: 12 hours per week for two semesters.

SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology*: Mrs. Cox.]

202a. *Child Psychology*: Mrs. Cox.

Prerequisite: General Psychology. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

These two courses, 301a and 302a, satisfy the practice-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements for practice-teaching can be made. Laboratory: 12 hours per week supervised teaching.

CERTIFICATE TO TEACH

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes General Psychology followed by Principles of Teaching and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised practice teaching in the public school.

Much of the basic work leading to the elementary school certificate is offered by the Department. Additional required courses may be taken at the University of Pennsylvania.

Fulfillment of certification requirements does not fully satisfy requirements for the Master of Arts degree, but because there is some overlap, an able full-time student can meet the requirements for both the certificate and the degree in three semesters.

English

PROFESSORS:	K. LAURENCE STAPLETON, A.B., Chairman MARY KATHARINE WOODWORTH, PH.D.
ASSOCIATE PROFESSORS:	WARNER B. BERTHOFF, PH.D. ISABEL GAMBLE MACCAFFREY, PH.D.
ASSISTANT PROFESSORS:	JAMES H. BRODERICK, PH.D. ROBERT B. BURLIN, PH.D.
VISITING LECTURER:	SHERMAN H. HAWKINS, PH.D.
LECTURER:	CATHERINE RODGERS, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department. Ph.D. candidates entering in 1963 and thereafter will be expected to present evidence of a knowledge of Latin equivalent to two years of high school training. This requirement must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length. The M.A. paper is due on May 1.

Examinations for the Ph.D. The Preliminary Examination is in five parts: four written (from three to four hours each) and an

oral (one to two hours). The candidate whose major interest is in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the mediaeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written the dissertation.

SEMINARS AND GRADUATE COURSES¹*English Literature*

Mr. Burlin:

1963-64: Chaucer and his Contemporaries.

1964-65: Old English Literature.

Instructor to be announced:

1964-65: Shakespeare.

Miss Stapleton:

1963-64: Studies in Poetry.

1964-65: Milton.

Miss Woodworth:

1963-64: Literature of the Eighteenth Century.

1964-65: Contemporary Literature.

Mr. Broderick:

1963-64: Victorian Writers.

1964-65: The Romantic Period.

Mr. Berthoff:

1963-64: Studies in American Literature.

SELECTED UNDERGRADUATE COURSES

201. *Chaucer*: Mr. Burlin.

202. *Shakespeare*: Mr. Hawkins.

203. *The Romantic Period*: Mr. Broderick.

[204. *The Victorian Period*: Mr. Broderick.]

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

1. Since seminars run through the year, students must begin work in the first semester.

208. *American Literature*: Mr. Berthoff.
 212b. *Blake*: Miss Woodworth.
 301. *Mediaeval Literature (exclusive of Chaucer)*: Miss Rodgers.
 302. *The Sixteenth Century*: Mrs. MacCaffrey.
 304. *The Seventeenth Century*: Miss Stapleton.
 [305. *The Eighteenth Century*: Miss Woodworth.]

French

VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D. ¹
ASSISTANT PROFESSOR:	BERNARD TOSCANI, PH.D.
LECTURER:	M. PAULINE JONES, M.A.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students may specialize either in Old French Philology and Literature or in Modern French Literature. If the major field is Old French, advanced work in Modern French Literature may be offered as an allied subject and vice versa. The other allied subjects accepted by the Department are: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate

1. On sabbatical leave for semester II, 1963-1964.

or undergraduate, in either French or an allied field. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination conducted in English. Candidates whose major field is Old French are expected to present evidence of a general knowledge of Modern French Literature and to take one examination in that field and vice versa. Before being admitted to the Preliminary Examination candidates must satisfy the Department that they have an adequate command of spoken French.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr. Roach:

Introduction à la littérature du moyen age, présentation systématique des éléments de grammaire historique.

Modern French Literature

Mr. Guggenheim:

Le moi dans la littérature française de Montaigne à Gide.
Rousseau et le Prérromantisme.
Balzac et Flaubert.
Stendhal.

Miss Jones:

Baudelaire.
Scève et Mallarmé.
Origines de la poésie moderne.

Mr. Maurin:

Aspects de la solitude dans la littérature française.
Rabelais et Montaigne.
Arts Poétiques de Mallarmé au Surréalisme.
Gide.

Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

301. *French Poetry from Villon to Valéry:* Mr. Maurin, Miss Jones.
 [302. *French Drama:* Mr. Guggenheim, Mr. Maurin.]
 [303. *The French Novel from 1700 to 1950:* Mr. Maurin.]
 304. *French Essayists and Moralists:* Mr. Maurin, Mr. Guggenheim.

Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,
Chairman

LINCOLN DRYDEN, PH.D.

DOROTHY WYCKOFF, PH.D.

ASSISTANT PROFESSOR:

JEROME REGNIER, PH.D.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 28-34)

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson, Miss Wyckoff, Mr. Regnier: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff, Mr. Regnier: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in Petrology and Metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.

Mr. Watson: *Mineralogy*

The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden, Mr. Regnier: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mr. Watson, Mr. Regnier: *Geochemistry*

A study of the distribution of elements, crystal structure and chemistry, mineral equilibria, et cetera.

SELECTED UNDERGRADUATE COURSES

- [301. *Structural and Field Geology*: Mr. Watson.]
- 302. *Stratigraphy*: Mr. Dryden.
- 303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Mr. Regnier, Mr. Watson.
- [305. *Geography*: Miss Wyckoff.]
- 306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

German

ASSOCIATE PROFESSOR: CHRISTOPH E. SCHWEITZER, PH.D.,
Chairman

ASSISTANT PROFESSORS: MARTHA M. DIEZ, M.A.
HUGO SCHMIDT, PH.D.
WILLIAM Z. SHETTER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject.

Language Requirements. Normally French and Latin for the M.A. and Ph.D. For the M.A. another language may substitute for Latin.

Program and Examination for the M.A. The program consists of one or two courses in literature and one in philology. The third

unit may be in an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examination for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, and one of the following: Old Saxon, Old English, or Old Norse. Work in Comparative Indo-European, structural linguistics, and a non-Indo-European language is recommended. Those majoring in German literature will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr. Schweitzer:

German Baroque Literature.

Goethe and Schiller.

The "Bildungsroman."

Mr. Schmidt:

Lyric Poetry Since Goethe.

The Modern German Novel.

Methods of Literary Criticism.

Mr. Shetter:

Linguistics.

Germanic Philology.

Middle High German Literature.

SELECTED UNDERGRADUATE COURSES

- [301. *Introduction to Germanic Philology.*]
- [302. *German Language and Literature of the Middle Ages:*
Mr. Shetter.]
- [303. *The Classics of the Nineteenth Century:* Mr. Schmidt.]
- [304. *Modern German Literature:* Mr. Schmidt.]
- [305a. *The German "Novelle":* Mr. Schmidt.]
- 306. *The German Drama:* Mr. Schweitzer.
- [307b. *German Poetry:* Mr. Schmidt.]
- 308. *Introduction to Linguistics:* Mr. Shetter.

Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D. ¹ MABEL L. LANG, PH.D., <i>Chairman</i>
INSTRUCTORS:	PETER A. MACKAY, M.A. ELEANOR R. CEDERSTROM, A.B.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

1. On leave of absence for the year 1963-1964.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

SEMINARS AND GRADUATE COURSES

Miss Lang:

The Peloponnesian War.

Mr. MacKAY:

Pindar.

SELECTED UNDERGRADUATE COURSES

201. *Thucydides and Tragedy*: Mrs. Cederstrom.

301. *Lyric Poetry and Comedy*: Mr. MacKAY.

History

PROFESSOR:

CAROLINE ROBBINS, PH.D., *Chairman*

ASSOCIATE PROFESSORS:

ARTHUR P. DUDDEN, PH.D.

DAVID J. HERLIHY, PH.D.

ASSISTANT PROFESSORS:

MARY MAPLES DUNN, PH.D.

BARBARA M. LANE, PH.D.

ALAN SILVERA, PH.D.

THE ANNA HOWARD

SHAW LECTURER:

C. V. WEDGWOOD

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON

BROUGHTON, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be able to read Latin. Those planning work in Modern European

History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Mr. Broughton: *Ancient History.*

Mediaeval and Renaissance History

Mr. Herlihy: Mediaeval Institutions.

[Instructor to be announced: Intellectual and Political Problems in the Age of the Renaissance and Reformation.]

British History

Miss Robbins: Topics in the History of the Period 1649-1875. Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.
Miss Wedgwood: Interregnum History, six weeks in Semester II.

American History

Mrs. Dunn: Topics in Colonial and Early National History.
Mr. Dudden: Topics in the History of the United States.

Modern European History

Miss Robbins: Eighteenth Century Life and Thought.
Mrs. Lane: Topics in the History of the Twentieth Century.
Mr. Silvera: The French Third Republic.
Mrs. Dunn: Historical Method, Semester I;
Great Historians, Semester II.

Journal Club. Faculty and students of the Department, and occasionally members of the Departments of Economics and Political Science, meet four or five times a year to discuss research in progress, or recent books and projects, or to entertain visiting scholars.

SELECTED UNDERGRADUATE COURSES

- 301. *Europe in the Twentieth Century*: Mrs. Lane.
- 303. *Recent History of the People of the United States of America*: Mr. Dudden.
- 305. *Renaissance and Reformation*: Mrs. Lane.
- 306a. *The Enlightenment*: Miss Robbins.

History of Art

PROFESSOR:	CHARLES MITCHELL, M.A., B.LITT., <i>Chairman</i>
ASSOCIATE PROFESSOR:	WILLIAM C. LOERKE, M.F.A., PH.D.
VISITING LECTURER:	STELLA KRAMRISCH, PH.D.
INSTRUCTORS:	GERALD M. ACKERMAN, M.F.A. SHELDON A. NODELMAN, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Program for the M.A. This consists of (a) three units of graduate work, one of which may be in an allied field; (b) an extended paper on a topic chosen in consultation with the Department; (c) a Final Examination (written or written and oral) to test the candidate's ability to place the topic chosen under (b) in the general context of the history of art.

Program for the Ph.D. Prime emphasis is placed on a program of research leading to a dissertation. A Preliminary Examination in four art-historical subjects (or in three art-historical subjects and one allied subject), consisting of four written papers and an oral examination, must be satisfactorily completed.

Allied Subjects. To be determined in consultation with the Department, according to the needs of the individual research program.

Prerequisites. The normal prerequisite for admission is a training in art history, but students with special abilities, or sound training in cognate disciplines are also admitted.

Languages. Students will be expected to read or be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian.

SEMINARS AND GRADUATE COURSES

Mr. Mitchell:

Alberti at Rimini.

Mr. Loerke:

Illuminated MSS of the 12th century.

Mr. Nodelman:

Abstract Expressionism.

SELECTED UNDERGRADUATE COURSES

- 205b. *Indian Art from the 3rd Millennium B.C. to the 6th Century A.D.:* Miss Kramrisch.
- 300a. *Texts for Art Historians:* Mr. Mitchell.
- 301b. *Academies of Art:* Mr. Ackerman.
- 324a. *The Theory and Practice of Cubism:* Mr. Nodelman.

History of Religion

PROFESSOR OF LATIN:	AGNES KIRSOPP MICHELS, PH.D.
ASSOCIATE PROFESSOR OF PHILOSOPHY:	JEAN A. POTTER, PH.D.
INSTRUCTOR:	DOROTHY CORBETT, PH.D.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major Department.

UNDERGRADUATE COURSES

- [103. *Literary History of the Bible*: Mrs. Michels.]
- 201a. *History of Ancient Israel*: Miss Corbett.
- 201b. *Christian Beginnings*: Miss Corbett.
- 202. *Man and His Religions*: Miss Corbett.
- 203a. *Philosophy of Religion*: Miss Potter
This course is also listed as Philosophy 203.
- 203b. *Mediaeval Philosophy*: Miss Potter.

Italian

PROFESSOR:	ANGELINE H. LOGRASSO, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	BERNARD TOSCANI, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

Language Requirements. French and German. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

Old Italian.

Provençal.

Dante.

The Renaissance.

Literary Criticism.

Manzoni.

Romanticism.

The Thought of Luigi Sturzo.

SELECTED UNDERGRADUATE COURSES

[201. *Classics in Italian Literature:* Miss Lograsso.]

202. *Dante:* Miss Lograsso.

[302c. *The Italian Language:* Miss Lograsso.]

[303. *Italian Literature of the Rinascimento:* Mr. Toscani.]

304. *Italian Literature of the Romantic Period:* Miss Lograsso.

Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON,
PH.D., *Chairman*
AGNES KIRSOPP MICHELS, PH.D.

ASSOCIATE PROFESSOR: MYRA UHLFELDER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

Language Requirements. French and German. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination all candidates must pass a rigorous examination in Latin sight translation. Candidates who offer Greek as an allied field must pass a rigorous examination in Greek sight translation. Candidates who do not offer Greek as an allied field must pass an examination to test their ability to read Greek at sight

before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton:

The Augustan Empire.

Cicero's Correspondence.

History and Literature of the Second Century B.C.

Latin Inscriptions.

Miss Uhlfelder:

History of Classical Scholarship.

Latin Palaeography and Textual Criticism.

Latin Literature of the Early Mediaeval Period.

Latin Literature of the Twelfth Century.

Mrs. Michels:

Augustan Poetry.

Lucretius and Catullus.

The Works of Vergil.

Roman Rhetoric: Theory and Practice.

Latin Literature of the Silver Age.

SELECTED UNDERGRADUATE COURSES

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Mr. Broughton.]

302a. *Cicero and Caesar*: Mr. Broughton.

302b. *Lucretius*: Miss Uhlfelder.

Mathematics

PROFESSORS:

JOHN C. OXTOBY, M.A., *Chairman*
MARGUERITE LEHR, Ph.D.

ASSOCIATE PROFESSOR:

FREDERIC CUNNINGHAM, JR., Ph.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. and Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Cunningham:

Functional Analysis.

General Topology.

Linear Spaces.

Theory of Functions of a Complex Variable.

Miss Lehr:

Abstract Algebra.

Differential Geometry.

Probability Theory.

Projective Spaces and Lattice Theory.

Mr. Oxtoby:

Ergodic Theory.

Mathematical Physics.

Measure Theory.

Point Set Topology.

Theory of Functions of a Real Variable.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus:* Mr. Oxtoby.

303a. *Introduction to Abstract Algebra:* Miss Lehr.

[304a. *Theory of Probability:* Miss Lehr.]

[305b. *Topics in Differential Geometry:* Miss Lehr.]

310. *Theory of Functions of a Complex Variable:* Mr. Oxtoby.

311b. *Differential Equations:* Mr. Cunningham.

Mediaeval Studies

PROFESSOR OF GEOLOGY:	DOROTHY WYCKOFF, PH.D.
PROFESSOR OF HISTORY OF ART:	CHARLES MITCHELL, M.A., B.LITT.
PROFESSOR OF ITALIAN:	ANGELINE HELEN LOGRASSO, PH.D.
PROFESSOR OF PHILOSOPHY:	JOSÉ MARÍA FERRATER MORA, <i>Lic.F.L.</i> ¹
VISITING PROFESSOR OF FRENCH:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSOR OF HISTORY OF ART:	WILLIAM C. LOERKE, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR OF HISTORY:	DAVID J. HERLIHY, PH.D.
ASSOCIATE PROFESSOR OF LATIN:	MYRA UHLFELDER, PH.D.
ASSOCIATE PROFESSOR OF MUSIC:	SYLVIA W. KENNEY, PH.D. ²
ASSOCIATE PROFESSOR OF PHILOSOPHY:	JEAN A. POTTER, PH.D.
ASSISTANT PROFESSOR OF ENGLISH:	ROBERT B. BURLIN, PH.D.

Graduate work in the mediaeval field may be done in either of two ways: (a) under a particular department, e.g., History, Latin, History of Art or one of the language and literature departments, in which case students come under the regulations of the department concerned; or (b) under the Mediaeval Studies Committee, as listed above, in which case students work for a degree specifically in Mediaeval Studies according to the following plan:

Prerequisites. An undergraduate major in any of the fields listed in the paragraphs under major and allied subjects.

Major and Allied Subjects. Any literature ancient, mediaeval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

1. On sabbatical leave for the year 1963-1964.

2. On leave of absence for the year 1963-1964.

Language Requirements. For the M.A. and the Ph.D.: Latin, French and German. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to the examination. The examination may be either written (four hours) or written and oral (three hours—one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, consisting of several examinations, written and oral, will be required.

SEMINARS AND GRADUATE COURSES: (See under the various departments).

Music

PROFESSOR AND DIRECTOR OF
THE CHORUS:

ROBERT L. GOODALE, B.Mus.,
A.A.G.O., *Chairman*

PROFESSOR AND DIRECTOR OF
ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.

ASSOCIATE PROFESSOR:

SYLVIA W. KENNEY, Ph.D.¹

LECTURER:

ISABELLE CAZEAUX, Ph.D.

DIRECTOR OF ORCHESTRA:

WILLIAM H. REESE, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which

1. On leave of absence for the year 1963-1964.

at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The oral examination covers the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Cazeaux:

Mediaeval and Early Renaissance Music: a Study of Style and Paleography.

Music of the Late Renaissance and Baroque.

Mr. Goodale:

Music of the Twentieth Century.

Theory and Analysis.

Mme Jambor:

The Interpretation of Music.

Mr. Alwyne:

The Music of England.

The Nineteenth Century.

SELECTED UNDERGRADUATE COURSES

201. *The Romantic Period*: Miss Cazeaux.
 202. *Advanced Theory and Analysis*: Mr. Goodale.
 203a. *Bach*: Mme Jambor.
 203b. *The Classical Period*: Mme Jambor.
 [301a. *Opera and Music Drama*: Miss Kenney.]
 [301b. *Contemporary Music*: Mr. Goodale.]
 302a. *Mediaeval and Early Renaissance Music*: Miss Cazeaux.
 302b. *Late Renaissance and Baroque Music*: Miss Cazeaux.
 303a. *Orchestration*: Mr. Goodale.
 303b. *Russian Music*: Mr. Alwyne.
 304a. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.
 305. *Free Composition*: Mr. Goodale.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to graduate students. Participation by students in the Department in one or more of these organizations is strongly urged.

Philosophy

PROFESSORS:

MILTON CHARLES NAHM, B.LITT.,
 PH.D., *Chairman*
 JOSÉ MARÍA FERRATER MORA, *Lic.F.L.*¹
 HUGUES LEBLANC, PH.D.
 ISABEL SCRIBNER STEARNS, PH.D.

ASSOCIATE PROFESSORS:

GEORGE L. KLINE, PH.D.
 JEAN A. POTTER, PH.D.

LECTURER:

ROBERT E. GAHRINGER, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

1. On sabbatical leave for the year 1963-1964.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: Another field of Philosophy and subjects in most fields of the humanities, mathematics, and natural and social sciences.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Nahm:

Aesthetics.

A systematic and historical analysis of problems in the philosophy of art.

Ethics.

Henry Sidgwick and the History of English Ethics.

Kant.

A study of the *Critique of Judgment* and the *Critique of Practical Reason*.

Miss Stearns:

Epistemology.

An historical and systematic study of the function of reason and other agencies in knowledge.

Metaphysics.

A study of such problems as time, the one and the many, the individual, appearance and reality.

Plotinus.

A detailed study of the *Enneads*.

Mr. Leblanc:

Deductive Logic.

A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Inductive Logic.

A study of statistical and inductive probabilities, of current methods for testing hypotheses and making estimates, and, more generally, of induction.

Logical Empiricism versus Analytic Philosophy.

A study of two major trends in American and British philosophy today.

Miss Potter:

Mediaeval Philosophy.

Studies in selected problems and texts in mediaeval philosophical thought.

Mr. Kline:

Hegel.

An intensive study of the *Phenomenology of Mind*.

Mr. Gahringer:

Systematic Ethics.

A study of related topics bearing on the nature and authorization of moral principles and the structure of practical reason.

[Mr. Ferrater Mora:

History of Philosophic Concepts.]

Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

SELECTED UNDERGRADUATE COURSES

- 201a. *German Idealism*: Mr. Gahringer.
- 201b. *Recent Metaphysics*: Miss Stearns.
- 202a. *Logic*: Mr. Leblanc.
- 203b. *Mediaeval Philosophy*: Miss Potter.
- [205b. *Hegel* Mr. Kline.]
- 301a. *Aesthetics*: Mr. Nahm.
- 301b. *Theory of Knowledge*: Mr. Leblanc.
- 302a. *Plato*: Miss Stearns.
- [302b. *Philosophy of History*: Mr. Ferrater Mora.]
- 303a. *Descartes and Spinoza*: Miss Potter.
- 303b. *Contemporary Philosophy*: Miss Potter.
- 305b. *Political Philosophy*: Mr. Gahringer.

Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	W. PAUL GANLEY, PH.D.
VISITING LECTURER:	FELIX BEIDUK, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars.

Allied Subjects. Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology, or Geology if their mathematical training is accepted as adequate for their work in Physics.

Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

SEMINARS

Two or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr. Michels, Miss Hoyt, Mr. Pruett, Mr. Ganley.

Theoretical Physics

Mr. Beiduk:

1963-64. *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating sys-

tems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Pruett:

1963-64: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Miss Hoyt:

1963-64: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr. Pruett:

1964-65: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Mr. Michels:

1965-66: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

- 201a. *Electricity and Magnetism*: Mr. Pruett.
- 202b. *Optics*: Mr. Michels.
- 301a. *Classical Mechanics*: Mr. Ganley.
- 303b. *Thermal Properties of Matter*: Mr. Michels.
- 304. *Introduction to Theoretical Physics*: Mr. Michels, Mr. Ganley.
- 305c. *Physical Measurements*: Mr. Michels, Mr. Ganley.
- [351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

Political Science

The Caroline McCormick Slade Department of Political Science

ASSOCIATE PROFESSORS: GERTRUDE C. K. LEIGHTON, A.B., LL.B.
Chairman

PETER BACHRACH, PH.D.

MELVILLE T. KENNEDY, JR., PH.D.

LECTURER:

CHARLES E. FRYE, M.A.

DEAN OF THE
COLLEGE:

DOROTHY NEPPER MARSHALL, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Theory, Comparative Government, American Government and Constitutional Law and International Law, Organization and Politics. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. Two modern languages.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

SEMINARS

Mr. Bachrach:

*American Constitutional Law.**Topics in American Political Theory.**The American Political Process.*

Mr. Frye:

In the European comparative field: subject to be announced.

Mr. Kennedy:

*Problems in Asian International Relations.**Topics in Chinese Political and Social Development, from 1911 to 1949.*

Miss Leighton:

The World Community and Law.

Journal Club. Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

301a. *Law and Society*: Miss Leighton.302b. *Law, Policy and Personality*: Miss Leighton.303a. *Problems in International Politics*: Mr. Kennedy.304b. *West European Integration*: Mr. Frye.305a. *Introduction to Latin American Politics*: Mrs. Marshall.[306b. *The Problem of Power in Contemporary Society*: Mr. Bachrach and Mr. Baratz.]307a. *The Weimar Republic*: Mr. Frye.308b. *American Political Theory*: Mr. Bachrach.

Psychology

PROFESSORS:

MORTON EDWARD BITTERMAN, PH.D.,

Chairman

RACHEL DUNAWAY COX, PH.D.

ASSOCIATE PROFESSORS:

DONALD ROBERT BROWN, PH.D.

ROBERT SIMON DAVIDON, PH.D.

RICHARD CHARLES GONZALEZ, PH.D.

WILLIAM AUGUST WILSON, JR.,

M.D., PH.D.

LECTURER:

KATHRYN ELINOR KOENIG, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, and Sociology. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics and Experimental Design.) Candidates for the Ph.D. must pass examinations in two of the three languages.

Program and Examinations for the M.A. The program of work must include three units (six one-semester courses or seminars), which usually will be chosen from the group of courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics and Experimental Design. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each candidate must pass the final examination in each of the eight courses listed below. The Preliminary Examination consists of three written papers in areas of specialization chosen by the student with the approval of the Department. A doctoral dissertation presenting the results of independent investigation must be prepared and published. The Final Oral Examination

deals with the dissertation and the field in which it has been written.

GRADUATE COURSES AND SEMINARS

The graduate courses which are regularly offered are listed below. In addition, advanced seminars are offered on specialized problems of mutual interest to faculty and students.

Mr. Bitterman:

Comparative Psychology.

Mr. Brown:

Personality.

Mr. Davidon:

Measurement.

Perception.

Mr. Gonzalez:

Human Learning and Thinking.

Miss Koenig:

Social Psychology.

Mr. Wilson:

Physiological Psychology.

Statistical Methods.

SELECTED UNDERGRADUATE COURSES

- 201a. *Comparative Psychology*: Mr. Bitterman.
- 202b. *Psychological Testing*: Mr. Davidon.
- 203b. *Learning and Thinking*: Mr. Bitterman.
- 204a. *Experimental Methods and Statistics*: Mr. Wilson.
- [205a. *Perception*: Mr. Davidon.]
- 301b. *Physiological Psychology*: Mr. Wilson.
- 302a. *Psychology of the Normal Personality*: Miss Koenig.
- 303b. *Advanced Social Psychology*: Miss Koenig.
- 304b. *Psychology of the Abnormal Personality*: Mrs. Cox.
- 307a. *History of Psychology*: Mr. Gonzalez.

Russian

ASSOCIATE PROFESSORS:	FRANCES DE GRAAFF, PH.D., <i>Chairman</i> GEORGE L. KLINE, PH.D.
ASSISTANT PROFESSOR:	RUTH C. PEARCE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. French and German. In special cases the Department may accept other languages.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian.

Pushkin and Lermontov.

The Russian Drama.

Mr. Kline:

Russian Critics of the Nineteenth Century.

Poets of the Twentieth Century.

Mrs. Pearce:

History of the Russian Language.

Old Church Slavonic.

SELECTED UNDERGRADUATE COURSES

- 201. *Readings in Russian Literature.*
- [206. *History of Russia:* Mr. Herlihy.]
- [302. *Pushkin and His Time:* Miss de Graaff.]
- 303. *Russian Literature of the Twentieth Century:* Mr. Kline.

Social Work and Social Research

*The Carola Woerishoffer Graduate Department
of Social Work and Social Research*

PROFESSORS:	KATHERINE D. K. LOWER, PH.D., <i>Director of the Department</i> BERNARD ROSS, PH.D.
ASSOCIATE PROFESSORS:	EDMUND V. MECH, PH.D. PHILIP LICHENBERG, PH.D. LOUIS GOLDSTEIN, PH.D. JEAN HARING, M.A., M.S.W. JEANNE POLLOCK, M.S.W. MARTIN REIN, PH.D.
ASSISTANT PROFESSORS:	JANE COLLINS KRONICK, PH.D. WILLIAM W. VOSBURGH, PH.D.
INSTRUCTORS:	PATRICIA MILLAR BURLAND, M.S.S. ELIZABETH L. PINNER, M.S.W.

PROFESSOR OF EDUCATION AND PSYCHOLOGY:	RACHEL D. COX, PH.D.
ASSOCIATE PROFESSOR OF SOCIOLOGY:	EUGENE V. SCHNEIDER, PH.D.
ASSISTANT PROFESSOR OF EDUCATION:	ETHEL W. MAW, PH.D.

Bryn Mawr awards the degrees of Doctor of Philosophy and Master of Social Service in the Department of Social Work and Social Research. The prerequisites and program required for the degree of Master of Social Service are described on page 33. The statement here refers to the Ph.D. in Social Work and Social Research.

The curriculum includes the following areas of study: Social Welfare, Theory in Social Work Practice, Social and Behavioral Sciences, and Social Research.

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives that are considered pertinent to individual interests, some of which may be taken in other depart-

ments within the College or at the University of Pennsylvania; and special experiences that are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. The Research Center of the Department provides special opportunities for social work research. Qualified students may participate in various phases of research in social work under the direction of members of the faculty engaged in the program of the Center.

Prerequisites. Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

Major and Allied Fields. The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is recommended. For the degree, substantial work in Statistics is also required.

Language Requirements. By special action of the faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be obtained by writing to the Director of the Department.

Sociology and Anthropology

PROFESSOR: FREDERICA DE LAGUNA, PH.D., *Chairman*

ASSOCIATE PROFESSOR: EUGENE V. SCHNEIDER, PH.D.

LECTURER IN

ANTHROPOLOGY: LEONARD B. GLICK, M.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

ANTHROPOLOGY

Prerequisites. A good undergraduate preparation in Anthropology and/or Sociology. Some undergraduate training in History, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students who specialize in Anthropology may be expected to do some work in Sociology and other allied subjects including Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Philosophy, Political Science or Psychology. See also the special requirements for the Ph.D. in Anthropology.

Language Requirements. Candidates for the M.A. or Ph.D. in Anthropology must offer two modern languages.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be taken in Sociology. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with other institutions, see page 27.) The

Preliminary Examination will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examination for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) and (3) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major culture area, etc. and (4) an examination in an allied field, such as Sociology or Psychology. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination.

SEMINARS AND GRADUATE COURSES IN ANTHROPOLOGY

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses (1/2 unit of credit).

Miss de Laguna:

American Archaeology. 1963-64.

Appointment to be announced:

Social Organization of Primitive Peoples.

The Culture of Australian Aborigines.

SELECTED UNDERGRADUATE COURSES

- 203a. *Primitive Culture*: Miss de Laguna.
- 203b. *Primitive Society*: Mr. Glick.
- [208a. *Human Evolution*: Miss de Laguna.]
- 301b. *Cultural Theory*: Miss de Laguna.
- 303a. *Problems of Ethnology in Oceania*: Mr. Glick.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Anthropology and in Sociology. Students are also urged to join the Philadelphia Anthropological Society which meets once a month at the University of Pennsylvania Museum.

SOCIOLOGY

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students will be expected to take some work in allied fields—Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics. In addition courses at the University of Pennsylvania in Sociology or allied fields may be taken for credit.

Language and Statistics Requirements. Candidates for the M.A. must offer one modern language and statistics. Candidates for the Ph.D. must offer two languages; these will normally be German and French, except in special cases.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to have had, or to take, at least one year's graduate work at another institution approved by the Department, except in special cases. (For exchange arrangements with other institutions, see page 27.)

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field, for instance in Anthropology, Social Psychology, Economics, Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

SEMINARS AND GRADUATE COURSES IN SOCIOLOGY

One seminar a year will be given from among the following topics:

Sociological Theory.

Social Institutions.

Theories of Social Change.

Sociology of Knowledge.

Industrial Sociology.

SELECTED UNDERGRADUATE COURSES

Advanced courses in this department and in allied fields at Bryn Mawr and Haverford may be offered for credit under special conditions.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Sociology and allied fields.

Spanish

ASSISTANT	WILLARD FAHRENKAMP KING, PH.D.
PROFESSOR:	<i>Chairman</i>
VISITING LECTURER:	CARLOS BLANCO AGUINAGA, PH.D.
LECTURER:	PHYLLIS TURNBULL, <i>D.en F.L.</i>
INSTRUCTOR:	MIGUEL GONZÁLEZ-GERTH, M.A.
<hr/>	
DEAN OF THE	
COLLEGE:	DOROTHY NEPPER MARSHALL, PH.D.
PROFESSOR OF	
PHILOSOPHY:	JOSÉ MARÍA FERRATER MORA, <i>Lic. F.L.</i> ¹

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

1. On sabbatical leave for the year 1963-1964.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two Romance languages other than Spanish, or one Romance language and German. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin will have to be included in the graduate program.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed as early as possible with the member of the Department with whom the candidate plans to work on the dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

[*Galdós* (Semester I and II).]

A detailed study of Galdós as novelist and dramatist against the background of nineteenth-century Spanish history and thought.

[*Ideological Currents in Renaissance Spain.*]

Platonism, Mysticism, Erasmism, and the Counter-Reformation.

The Mediaeval Castilian Epic (Semester I).

A study of historical and literary problems surrounding the Castilian epic, with particular attention to the *Cantar de Mio Cid*.

The Mediaeval Castilian Lyric (Semester II).

The origins and development of Castilian lyric poetry. An intensive study will be made of the *Libro de Buen Amor*.

[*Prose Fiction of the Renaissance.*]

From *La Celestina* to *Don Quixote*.

[*The Poetry of the Golden Age.*]

The evolution of Spanish poetry from Garcilaso to Góngora.

Problems in the Golden Age Theater.

Studies in Modern Spanish Literature.

SELECTED UNDERGRADUATE COURSES

[302a. *Mediaeval Spanish Literature*: Miss Turnbull.]

303a. *Modern Novel in Spain*: Mrs. King.

303b. *Modern Spanish Poetry*: Mrs. King.

[304a. *Drama of the Golden Age*: Mrs. King.]

[304b. *The Age of Cervantes*: Mrs. King.]

[305. *Prose Fiction of the Renaissance.*]

How to Get to Bryn Mawr

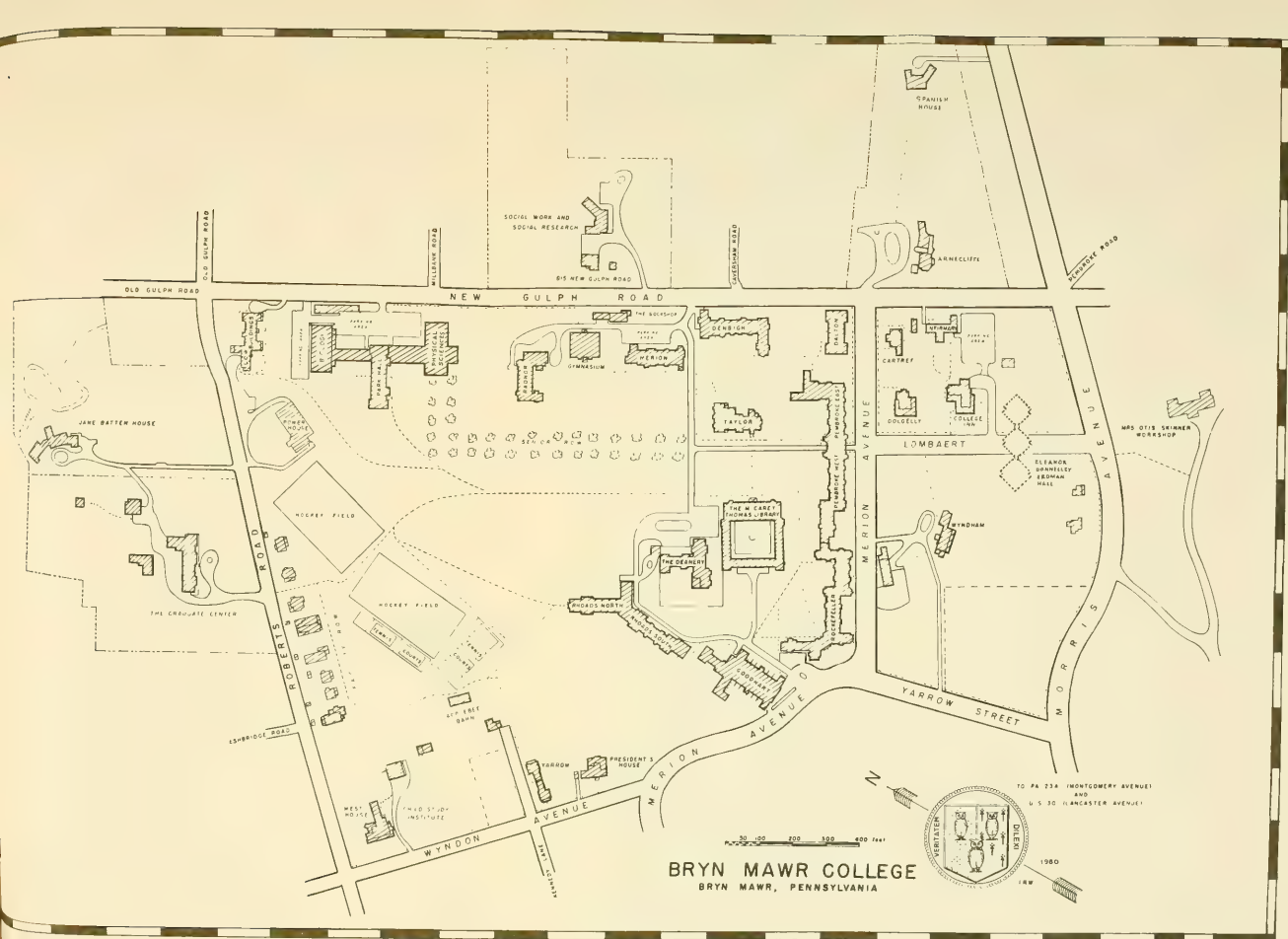
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.



BRYN MAWR

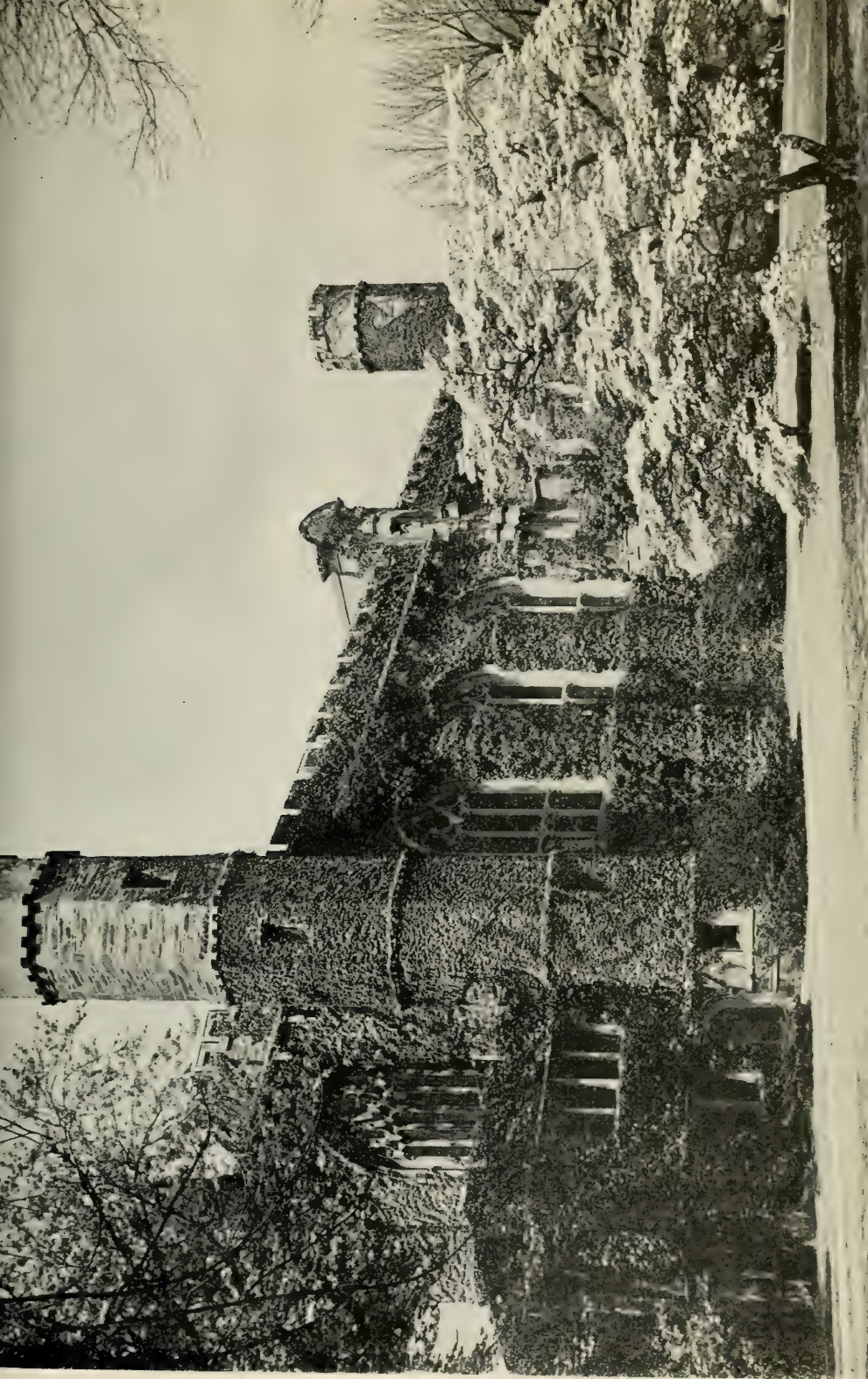
THE GRADUATE SCHOOL 1963-1964

BRYN MAWR

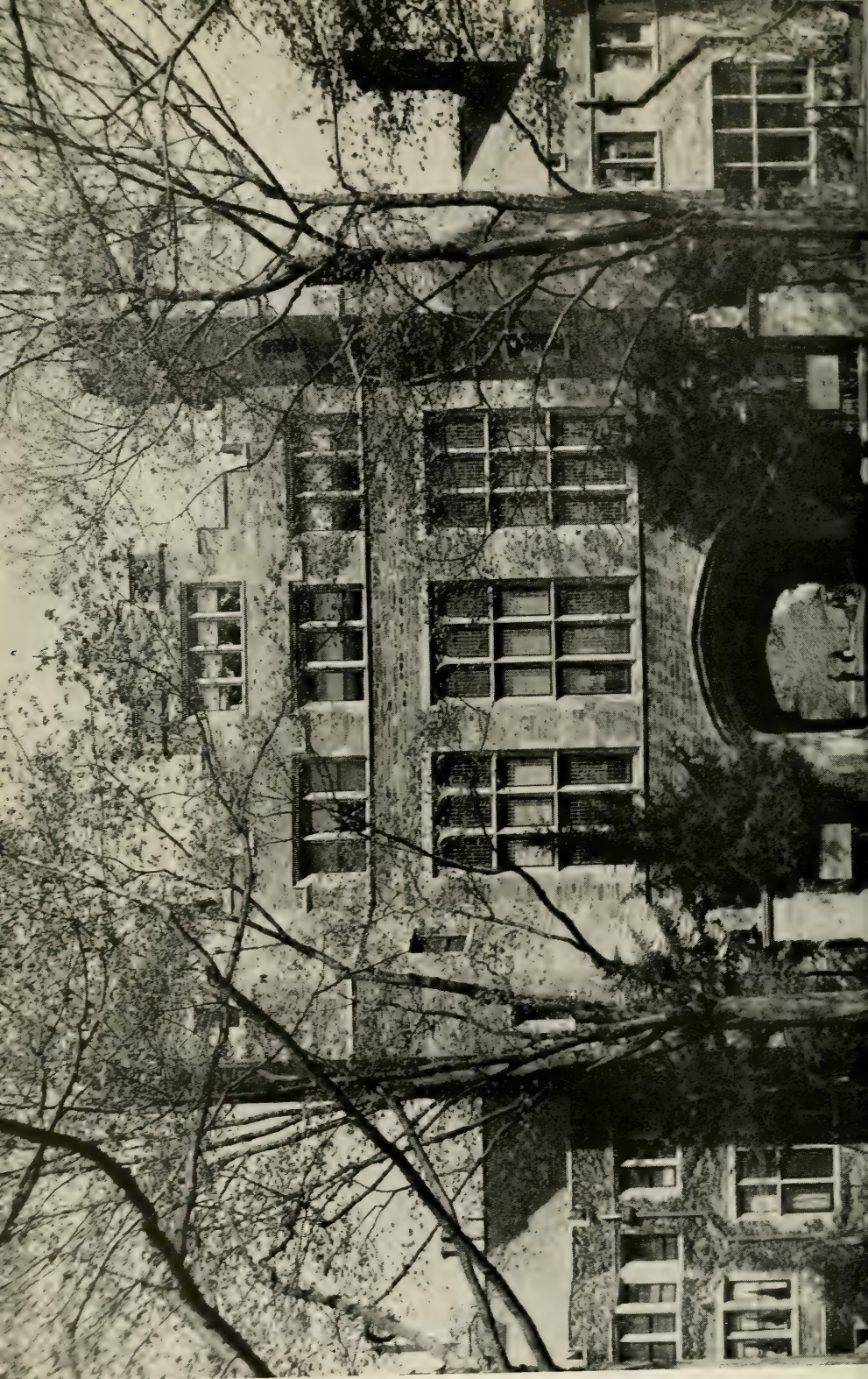
COLLEGE CALENDAR

1963 | 1964

UNDERGRADUATE COURSES



THE M. CAREY THOMAS LIBRARY



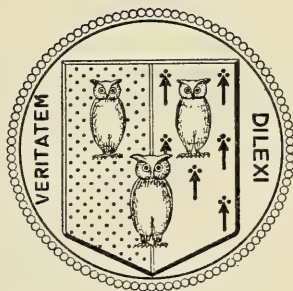
PEMBROKE ARCH

Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1963-1964



AUGUST 1963

Volume LVI

Number 3

VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after Labor Day the offices are closed on Saturdays.

Whenever possible, visitors are urged to write in advance for appointments. Prospective students are encouraged to secure information about the College from local College Representatives, whose names and addresses are listed on pages 139-147.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional scholarships and loan fund

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa.

Entered as second-class matter, May 28, 1940, at the post office, Bryn Mawr, Pennsylvania, under the Act of August 24, 1912

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1963	1964	1965
S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JANUARY
.. 1 2 3 4 5 6 1 2 3 4 1 2 3 4
7 8 9 10 11 12 13	5 6 7 8 9 10 11	5 6 7 8 9 10 11
14 15 16 17 18 19 20	12 13 14 15 16 17 18	12 13 14 15 16 17 18
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25 26 27 28 29 30 31	23 24 25 26 27 28 29	28
SEPTEMBER	MARCH	MARCH
1 2 3 4 5 6 7	1 2 3 4 5 6 7	.. 1 2 3 4 5 6
8 9 10 11 12 13 14	8 9 10 11 12 13 14	7 8 9 10 11 12 13
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OCTOBER	APRIL	APRIL
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DECEMBER	JUNE	JUNE
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22 23 24 25 26 27 28	21 22 23 24 25 26 27	20 21 22 23 24 25 26
29 30 31	28 29 30	27 28 29 30

College Calendar

1963-1964

1963

FIRST SEMESTER

September 20 (*Friday*). Halls of residence open to entering class at 8 A.M.

September 22 (*Sunday*). Halls of residence open to all returning undergraduate students at 8 P.M.

September 24 (*Tuesday*). The 79th academic year begins at 9 A.M.

November 27 (*Wednesday*). Thanksgiving holiday begins after last class

December 2 (*Monday*). Thanksgiving holiday ends at 9 A.M.

December 18 (*Wednesday*). Christmas vacation begins at 12:45 P.M.

1964

January 6 (*Monday*). Christmas vacation ends at 9 A.M.

January 17 (*Friday*). Last day of lectures

January 20 (*Monday*). College examinations begin

January 30 (*Thursday*). College examinations end

SECOND SEMESTER

February 3 (*Monday*). The second semester begins at 9 A.M.

March 27 (*Friday*). Spring vacation begins after last class

April 6 (*Monday*). Spring vacation ends at 9 A.M.

May 15 (*Friday*). Last day of lectures

May 18 (*Monday*). College examinations begin

May 29 (*Friday*). College examinations end

June 1 (*Monday*). Conferring of degrees and close of the 79th academic year

The Academic Schedule is listed on pages 148-149.

The Trustees of Bryn Mawr College

J. EDGAR RHOADS, *President*

MILLCENT CAREY MCINTOSH¹ ELIZABETH GRAY VINING²
Vice-Presidents

JOHN E. FORSYTHE
Treasurer

AGNES BROWN LEACH³
Secretary

J. TYSON STOKES
Assistant Treasurer

MARGARET TYLER PAUL⁴
Assistant Secretary

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AGNES BROWN LEACH³

JOHN E. FORSYTHE

MILLCENT CAREY MCINTOSH¹

JOHN S. PRICE

J. EDGAR RHOADS

ALLEN MCKAY TERRELL

C. CANBY BALDERSTON

AMOS JENKINS PEASLEE

ELIZABETH GRAY VINING²

JONATHAN E. RHOADS

HENRY JOEL CADBURY

JAMES WOOD

LELIA WOODRUFF STOKES⁵

The Board of Directors

HENRY JOEL CADBURY, *Chairman*

ELEANOR LITTLE ALDRICH⁶

ELIZABETH GRAY VINING²

Vice-Chairmen

JOHN E. FORSYTHE
Treasurer

AGNES BROWN LEACH³
Secretary

J. TYSON STOKES
Assistant Treasurer

MARGARET TYLER PAUL⁴
Assistant Secretary

Directors

AGNES BROWN LEACH³

J. TYSON STOKES

MILLCENT CAREY MCINTOSH¹

PHYLLIS GOODHART GORDAN⁷

J. EDGAR RHOADS

ALICE PALACHE JONES⁸

C. CANBY BALDERSTON

ALICE CLEMENT INGERSOLL⁹

ELIZABETH GRAY VINING²

LEWIS N. LUKENS

HENRY JOEL CADBURY

JANE YEATMAN SAVAGE¹⁰

JOHN E. FORSYTHE

Alumnae Director, 1958-1963

JOHN S. PRICE

ANGELA JOHNSTON BOYDEN¹¹

ALLEN MCKAY TERRELL

Alumnae Director, 1959-1964

AMOS JENKINS PEASLEE

KATHARINE STRAUSS MALI¹²

JONATHAN E. RHOADS

Alumnae Director, 1960-1965

JAMES WOOD

MARY HALE CHASE¹³

LELIA WOODRUFF STOKES⁵

Alumnae Director, 1961-1966

KATHARINE ELIZABETH MCBRIDE

ELIZABETH CURRAN WARREN¹⁴

ELEANOR LITTLE ALDRICH⁶

Alumnae Director, 1962-1967

MARY DUFFEE BROWN¹⁵

Alumnae Director, 1963-1968

DOREEN CANADAY SPITZER, *by invitation*¹⁶
President of the Alumnae Association

Standing Committees of the Board of Directors for 1963

Executive Committee

MR. RHOADS, *Chairman*
MR. CADBURY, *ex officio*
MR. ALDRICH
MR. FORSYTHE
MRS. GORDAN
MRS. LEACH
MISS MCBRIDE
MRS. MCINTOSH
MRS. SAVAGE
MR. STOKES

Buildings and Grounds Committee

MR. PRICE, *Chairman*
MRS. GORDAN, *Vice-Chairman*
MRS. CHASE
MRS. INGERSOLL
MISS MCBRIDE
MR. PEASLEE
MR. RHOADS
MRS. WARREN

Finance Committee

MR. FORSYTHE, *Chairman*
MR. RHOADS, *ex officio*
MRS. JONES
MRS. LEACH
MR. PRICE
MR. STOKES
MR. TERRELL

Library Committee

MRS. GORDAN, *Chairman*
MRS. ALDRICH
MRS. BOYDEN
MRS. MALI
MISS MCBRIDE
MRS. SAVAGE
MRS. VINING

Religious Life Committee

MISS MCBRIDE, *Chairman*
MR. CADBURY
MRS. BOYDEN
MRS. INGERSOLL
MRS. MCINTOSH
DR. RHOADS
MR. STOKES
MRS. VINING

-
1. Mrs. Rustin McIntosh
 2. Mrs. Morgan Vining
 3. Mrs. Henry Goddard Leach
 4. Mrs. Samuel H. Paul
 5. Mrs. Francis J. Stokes
 6. Mrs. Talbot Aldrich
 7. Mrs. John D. Gordan, Jr.
 8. Mrs. Russell K. Jones

9. Mrs. C. Jared Ingersoll
10. Mrs. Ernest C. Savage
11. Mrs. Willard N. Boyden
12. Mrs. Henry J. Mali
13. Mrs. G. Howland Chase
14. Mrs. Geoffrey S. Warren
15. Mrs. Charles B. Brown
16. Mrs. Lyman Spitzer, Jr.

Faculty and Staff

ACADEMIC YEAR, 1963-1964

KATHARINE ELIZABETH MCBRIDE, PH.D. (Bryn Mawr College),
LL.D., L.H.D., Sc.D., *President of the College*

DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean
of the College*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D.,
Dean of the Graduate School

ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Director
of Admissions*

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to
the President*

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (Uni-
versity of Manitoba), *Head Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of
Physical Education*

PEARL S. PITT, M.D. (Columbia University, College of Physicians
and Surgeons), *College Physician*

RHYS CARPENTER, PH.D. (Columbia University), LITT.D., *Profes-
sor Emeritus of Classical Archaeology*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),
Professor Emeritus of Philosophy

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of
German Literature*

CHARLES GHEQUIÈRE FENWICK, PH.D. (Johns Hopkins University),
LL.D., *Professor Emeritus of Political Science*

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus
of Old French*

STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University),
Professor Emeritus of English Philology

MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor
Emeritus of German*

HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor
Emeritus of History*

CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*

FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*

ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Professor Emeritus of English Literature*

MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*

LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*

ROGER HEWES WELLS, PH.D. (Harvard University), *Professor Emeritus of Political Science*

ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*

THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*

HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*

ERNST BERLINER, PH.D. (Harvard University), *W. Alton Jones Professor of Chemistry*

L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Professor of Psychology*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*

FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*

LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*

JOSÉ MARÍA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*¹

1. On sabbatical leave for the year, 1963-1964.

- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*
- ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O., *Professor of Music*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*¹
- HUGUES LEBLANC, PH.D. (Harvard University), *Professor of Philosophy*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*²
- MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Professor of Classical and Near Eastern Archaeology*³
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Professor of History of Art*

1. On sabbatical leave for the year, 1963-1964.

2. On leave of absence, semester I, 1963-1964.

3. On sabbatical leave, semester II, 1963-1964.

MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*

MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*

JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*

JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*

WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*

CAROLINE ROBBINS, PH.D. (University of London), *Marjorie Walter Goodhart Professor of History*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Professor of Social Work and Social Research*

K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English*

ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*

EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*

PETER BACHRACH, PH.D. (Harvard University), *Associate Professor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*¹

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate Professor of English*

1. On leave of absence for the year, 1963-1964.

- DONALD ROBERT BROWN, PH.D. (University of California), *Associate Professor of Psychology*
- ROBERT L. CONNER, PH.D. (Indiana University), *Associate Professor of Biology*
- FREDERIC CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor of Mathematics*
- ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor of Russian, on joint appointment with Haverford College*
- ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate Professor of History*
- LOUIS GOLDSTEIN, PH.D. (University of Minnesota), *Associate Professor of Social Work and Social Research*
- RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Associate Professor of Psychology*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Associate Professor of French*¹
- JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Associate Professor of Social Work and Social Research*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Associate Professor of History*
- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Associate Professor of Political Science*
- GEORGE L. KLINE, PH.D. (Columbia University), *Associate Professor of Russian and Philosophy*
- GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B. (Yale University), *Associate Professor of Political Science*
- PHILIP LICHTENBERG, PH.D. (Western Reserve University), *Associate Professor of Social Research*

1. On sabbatical leave for semester II, 1963-1964.

- WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Associate Professor of English*
- MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*
- EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*
- JEANNE C. POLLOCK, M.S.W. (University of Pennsylvania School of Social Work), *Associate Professor of Social Work*
- JEAN A. POTTER, PH.D. (Yale University), *Associate Professor of Philosophy*
- JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*
- MARTIN REIN, M.S.S.W. (New York School of Social Work), PH.D. (Brandeis University), *Associate Professor of Social Work and Social Research*
- EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*
- CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*
- WILLIAM AUGUST WILSON, JR., M.D. (Yale University), PH.D. (University of California), *Associate Professor of Psychology*
- GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of Music*¹
- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor and Associate Professor-elect of Chemistry*²
- MYRA L. UHLFELDER, PH.D. (Bryn Mawr College), *Associate Professor-elect of Latin*

1. On leave of absence for the year, 1963-1964.

2. On sabbatical leave for the year, 1963-1964.

- JAMES H. BRODERICK, PH.D. (Harvard University), *Assistant Professor of English*
- ROBERT B. BURLIN, PH.D. (Yale University), *Assistant Professor of English*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- MARY MAPLES DUNN, PH.D. (Bryn Mawr College), *Assistant Professor of History*
- WILLIAM PAUL GANLEY, PH.D. (University of Buffalo), *Assistant Professor of Physics*
- WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Assistant Professor of Spanish*
- JANE COLLIER KRONICK, PH.D. (Yale University), *Assistant Professor of Social Work and Social Research*
- ETHEL MAW, PH.D. (University of Pennsylvania), *Assistant Professor of Education and Child Development*
- RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Assistant Professor of Russian*
- KYLE M. PHILLIPS, JR., PH.D. (Princeton University), *Assistant Professor of Classical and Near Eastern Archaeology*
- JEROME REGNIER, PH.D. (Columbia University), *Assistant Professor of Geology*
- BRUNILDE SISMONDO RIDGWAY, PH.D. (Bryn Mawr College), *Assistant Professor of Classical and Near Eastern Archaeology*
- HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor of German*
- WILLIAM Z. SHETTER, PH.D. (University of California), *Assistant Professor of German*
- BERNARD TOSCANI, PH.D. (University of Pennsylvania), *Assistant Professor of Italian and French*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*
- WILLIAM W. VOSBURGH, PH.D. (Yale University), *Assistant Professor of Social Work and Social Research*

JAY MARTIN ANDERSON, M.A. (Harvard University), *Assistant Professor-elect of Chemistry*

PATRICIA MILLAR BURLAND, M.S.S. (Bryn Mawr College), *Instructor and Assistant Professor-elect of Social Work and Social Research*

BARBARA MILLER LANE, PH.D. (Harvard University), *Lecturer and Assistant Professor-elect of History*

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer and Assistant Professor-elect of Education and Child Development*

ALAN SILVERA, PH.D. (Harvard University), *Lecturer and Assistant Professor-elect of History*

ELISE BARTHOLOMEW, PH.D. (Radcliffe College), *Part-time Lecturer in Social Work*

FELIX BEIDUK, PH.D. (Indiana University), *Visiting Lecturer in Physics*

FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*

CARLOS BLANCO AGUINAGA, PH.D. (Johns Hopkins University), *Visiting Lecturer in Spanish for Semester II*

GALIA S. BODDE, (Far Eastern University), *Part-time Lecturer in Russian*

ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Part-time Lecturer in English on the Theresa Helburn Fund and Director of the Theatre*

ISABELLE CAZEAUX, PH.D. (Columbia University), *Lecturer in Music*

SARAH C. FLEMISTER, PH.D. (Duke University), *Part-time Lecturer in Biology*

CHARLES FRYE, M.A. (University of Colorado), *Lecturer in Political Science*

ROBERT E. GAHRINGER, PH.D. (Harvard University), *Lecturer in Philosophy*

LEONARD BARRY GLICK, M.D. (University of Maryland School of Medicine), *Lecturer in Anthropology*

SHERMAN H. HAWKINS, PH.D. (Princeton University), *Visiting Lecturer in English*

- M. PAULINE JONES, M.A. (Middlebury College), *Lecturer in French*
- PHILIP KLEIN, PH.D. (Columbia University), *Visiting Lecturer in Social Work and Social Research*
- KATHRYN E. KOENIG, PH.D. (University of Michigan), *Lecturer in Psychology*
- STELLA KRAMRISCH, PH.D. (University of Vienna), *Visiting Lecturer in History of Art for Semester II*
- SHERMAN ROY KRUPP, PH.D. (University of California), *Lecturer in Economics*
- PIERRE A. MACKAY, M.A. (University of California), *Lecturer in Greek*
- JAMES B. PRITCHARD, PH.D. (University of Pennsylvania), *Visiting Lecturer in Classical and Near Eastern Archaeology for Semester I*
- CATHERINE RODGERS, PH.D. (Brown University), *Lecturer in English*
- MARVIN ROSEN, PH.D. (University of Pennsylvania), *Visiting Lecturer in Education*
- RUTH O. STALLFORT, M.S. (Simmons College School of Social Work), *Part-time Lecturer in Social Work and Social Research*
- PHYLLIS TURNBULL, D. en F.L. (University of Madrid), *Lecturer in Spanish*
- ERIKA ROSSMAN BEHREND, A.M. (University of Pennsylvania), *Research Associate in Psychology*
- ADAM BEKIERKUNST, PH.D. (The University of Wroclaw), *Research Associate in Biology*
- LISELOTTE M. FREED, PH.D. (Columbia University), *Research Associate in Biology*
- JANICE TAYLOR GORDON, PH.D. (Bryn Mawr College), *Research Associate in Chemistry*
- DOROTHY S. SMYTHE, A.B. (Mount Holyoke College), *Research Associate in Biology*
- LARRY STEIN, PH.D. (University of Iowa), *Research Associate in Psychology*
- MARTHA HELSON WILSON, PH.D. (Yale University), *Research Associate in Psychology*

GERALD ACKERMAN, M.F.A. (Princeton University), *Instructor in History of Art*

SANDRA M. BERWIND, M.A. (Bryn Mawr College), *Part-time Instructor in English*

MIGUEL GONZÁLEZ-GERTH, M.A. (University of Texas), *Instructor in Spanish*

LUBA HALAT, M.A. (Bryn Mawr College), *Part-time Instructor in Russian*

ELEANOR WINSOR LEACH, PH.D. (Yale University), *Instructor in English*

PETER JOHN LEACH, M.F.A. (Yale University), *Instructor in English*

RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*

DORIS QUINN, M.A. (Oxford University), *Part-time Instructor in English*

UN-JIN PAIK ZIMMERMAN, PH.D. (Bryn Mawr College), *Part-time Instructor in Chemistry*

ELEANOR R. CEDERSTROM, A.B. (Smith College), *Part-time Instructor-elect in Greek*

DOROTHY CORBETT, PH.D. (Harvard University), *Instructor-elect in History of Religion*

ELLEN S. GINSBERG, M.A. (Northwestern University), *Instructor-elect in French*

GERLINDE JORDAN, (University of Munich), *Part-time Instructor-elect in German*

SHELDON NODELMAN, M.A. (Yale University), *Instructor-elect in History of Art*

ELIZABETH L. PINNER, M.S.W. (University of Pittsburgh), *Part-time Instructor-elect in Social Work and Social Research*

T. LESLIE SHEAR, M.A. (Princeton University), *Part-time Instructor-elect in Classical and Near Eastern Archaeology for Semester II*

THEODORA STILLWELL, A.B. (Bryn Mawr College), *Part-time Instructor-elect in Latin*

FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*

WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*

- DAVID B. ARNOLD, B.S. (University of Pennsylvania), *Part-time Assistant in Chemistry*
- ANN HARNWELL ASHMEAD, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*
- E. JENNIFER ASHWORTH, B.A. (Cambridge University), *Part-time Assistant in Philosophy*
- PAUL BAINBRIDGE, B.A. (American University), *Part-time Assistant in Psychology*
- ELIZABETH BANCROFT, A.B. (Vassar College) *Part-time Assistant in English*
- JEAN MARIE BARTHOLOMEW, A.B. (Eastern Baptist College), *Part-time Assistant in Chemistry*
- PAUL A. BENOFKY, B.A. (Eastern Baptist College), *Part-time Assistant in Philosophy*
- BARRY BERGER, B.S. (University of Maryland), *Part-time Assistant in Psychology*
- MARY SUSAN BRUBAKER, M.S.W. (University of Pennsylvania), *Part-time Assistant in Social Work and Social Research*
- PAO-YU CHING, M.A. (Bryn Mawr College), *Part-time Assistant in Economics*
- CAROLINE MANNING CUNNINGHAM, M.A. (Wesleyan University), *Part-time Assistant in Music*
- ALICE F. EMERSON, A.B. (Vassar College), *Part-time Assistant in Political Science*
- STILES DEAN EZELL, JR., M.A. (Bryn Mawr College), *Part-time Assistant in Biology*
- RICHARD S. GOOD, M.S. (Pennsylvania State University), *Part-time Assistant in Geology*
- THOMAS HIGGINS, B.S. (St. Joseph's College), *Part-time Assistant in Physics*
- JANE R. McCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- DAVID McDEVITT, M.A. (Bryn Mawr College), *Part-time Assistant in Biology*
- JOAN L. MULLER, A.B. (Goucher College), *Part-time Assistant in Classical and Near Eastern Archaeology and in History of Art*
- DAVID W. NEWMAN, M.A. (University of Pennsylvania), *Part-time Assistant in Chemistry*
- FRANCES C. PASCALE, A.B. (Albertus Magnus College), *Part-time Assistant in Mathematics*
- SARAH A. RUBIN, M.A. (Bryn Mawr College), *Part-time Assistant in History*
- WILLIAM SELLYEY, B.S. (Villanova University), *Part-time Assistant in Physics*

- HIROKO SUE, M.A. (University of Tokyo), *Part-time Assistant in Sociology and Anthropology*
 RAYMOND SWEENEY, JR., B.S. (St. Joseph's College), *Part-time Assistant in Physics*
 HERBERT E. WYLEN, B.S. (University of Delaware), *Part-time Assistant in Physics*

Officers of Administration

- MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*
 CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*
 LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*
 CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*
 PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*
 JULIE E. PAINTER, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*
 CLARISSA WARDWELL PELL, *Director of the Resources Committee*
 PATRICIA ONDERDONK PRUETT, M.A. (Bryn Mawr College), *Assistant Dean of the College*
 HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

- JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (University of Manitoba), *Head Librarian*
 PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*
 JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*
 DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*
 YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*
 ETHEL W. WHETSTONE, A.B.L.S. (University of North Carolina), *Librarian, Departmental Libraries*
 SHEILA M. CARSON, M.L.S. (Simmons College), *Assistant in Cataloguing Department*
 ELIZABETH C. E. GREENALL, M.L.S. (McGill University), *Assistant in Cataloguing Department*

Halls of Residence

- KATHERINE BAUBLIS, A.B. (Boston University), *Warden-elect of Rockefeller*
- JOAN CROWTHER, M.A. (Bryn Mawr College), *Warden-elect of Rhoads*
- CAROLYN D. EVANS, B.A. (University College of Wales, Aberystwyth), *Warden-elect of Radnor*
- MARGARET HEALY, M.A. (St. John's University), *Warden-elect of Pembroke West*
- MARIE ELIZABETH HUBERT-RODIER, (University of Paris), *Warden-elect of Wyndham*
- JUDITH JHIRAD, M.S.S. (Smith College School of Social Work), *Senior Resident of the Graduate Center*
- MARY P. MCPHERSON, M.A. (University of Delaware), *Warden-elect of Pembroke East*
- JULIA JANE NASH, M.A. (University of Pennsylvania), *Warden-elect of Denbigh*
- HELGA PILLWEIN, B.S. (St. Joseph's College), *Warden-elect of the German House*
- MARÍA ROBLEDO, A.B. (College of William and Mary), *Warden-elect of the Spanish House*
- BARBARA SHOEMAKER, A.B. (Bryn Mawr College), *Warden-elect of Merion*

Health

- PEARL S. PITT, M.D. (Columbia University, College of Physicians and Surgeons), *College Physician*
- FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*
- JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*
- HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*
- IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Physical Education

- IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*
- ETHEL GRANT, *Instructor in Physical Education*
- GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*
- JANET A. YEAGER, *Instructor in Physical Education*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),
Director

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

LOUISE BRUNK, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

JEANNE MURRAY, M.S.W. (University of Washington), *Social Caseworker*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

ELI HARMON, M.D. (Tulane University School of Medicine), *Consulting Psychiatrist*

JONAS B. ROBITSCHER, M.D. (George Washington University), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

BONNIE T. HOREN, A.B. (Bryn Mawr College), *Assistant in Psychology*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

ANITA POOLE MILLER, M.A. (Drexel Institute), *Head Teacher*

JOAN H. FRASER, B.S. (Northwestern University), *Assistant Teacher*

Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. He expressed the "desire that all having any connexion with this Institution shall endeavor to instil into the minds and hearts of the students, the Doctrines of the New Testament as accepted by Friends." As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads.

In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 88 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and

Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all students.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussion on religious subjects, to plan services for worship and to take the responsibility

for giving students an opportunity to pursue and extend their religious interests.

Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large. The Arts Council, independently or with other associations, sponsors work and performances or exhibitions in the arts and *The College News* published weekly and *The Review* published twice yearly welcome the participation of students interested in reporting, editing, and critical or creative writing. The Athletic Association plans the extra-curricular athletic program.

Opportunities for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts are present to each undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. Representatives of the College and of the Alumnae Association and Alumnae Information Chairmen in various sections of the country are glad to interview candidates. Names and addresses may be secured from the Admissions Office.

The College admits only candidates for a degree, not special students.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware

that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider applications provided such students have maintained good records and continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 1 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 15 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude and Achievement Tests should be taken in December or January of the senior year in secondary school. Bryn Mawr prefers that candidates offer Achievement Tests in English, in a foreign language, and in one of the following: Social Studies, one of the sciences, or in Intermediate or Advanced Mathematics. Bryn Mawr does not require the English Writing Sample offered by the College Board. A student taking the Writing Sample for another college, however, should have the sample sent to Bryn Mawr. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified late in April of the senior year as to whether or not they will be admitted to the College.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 1025, Berkeley 1, California.

EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the middle of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she must file before October 1, in addition to a regular application, a statement obtained from the College that she is a candidate under the Early Decision Plan.
3. She will be notified by the College by the middle of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the winter of her senior year, and filing an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.
4. A student who has been assured of admission will be asked to make a deposit of \$200 by February 1 if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

ADVANCED PLACEMENT

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements for the A.B. degree.¹ As in the case of summer school work, with the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

1. The grade of 5 is required in English and in History.

The Advanced Placement Tests are given at College Board centers in May.

Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test in the March or May series. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 27.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

READMISSION

A student who has withdrawn from College is not automatically readmitted. She should make application for readmission to the Director of Admissions not later than April 1 of the year in which readmission is sought.

Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing about 300,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students. So crowded, however, has the Library become, not only in terms of its collections but also for faculty and students depending upon it, that an addition is urgently needed. Studies for this addition are nearing completion.

Haverford and Swarthmore Colleges and the libraries in Phila-

delphia are generous in making their resources available to students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various other gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-39, 1946-47) with the Department of Archaeology. She has also given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

LABORATORIES

The Departments of Chemistry and Geology have their laboratories, libraries and classrooms in the Marion Edwards Park Hall. The Department of Biology is located in a new building adjoining Park Hall. This is the second of three buildings planned to provide in one unified group ample space and modern facilities for the natural sciences and mathematics. The third building, for the Physical Sciences and Mathematics, under construction, will be completed and ready for use in the fall of

1964 when the Departments of Mathematics and Physics will move from their present quarters in Dalton.

Both Dalton where the Department of Psychology will remain, and the Science Center have facilities for graduate as well as undergraduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed by faculty and graduate students in particular research projects. On occasion this equipment is made available to advanced undergraduates working on honors problems.

In the present Science Center there are new laboratories for the use of radioactive materials, a glass-blowing shop, and a laboratory for microphotography. In Dalton Hall there is a machine shop with an expert machinist in charge. There are also student shops at the disposal of graduate students in both Physics and Psychology and seniors working on honors problems. In addition, there is a modest hot laboratory in which radioactive samples may be processed in connection with the programs of the various departments.

A Computing Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment, available for the use of students and faculty of both colleges.

Each of the science departments has its own library including the appropriate scientific journals. The Geology Department also has over 25,000 maps on deposit from the United States Army Map Service. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

LANGUAGE LABORATORY

The Modern Language Departments jointly maintain a Language Laboratory. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

Residence

HALLS OF RESIDENCE

There are on the campus eight halls of residence, which provide full living accommodations for from fifty to eighty-five students. In addition there are three smaller halls which constitute language houses for upperclassmen who wish to speak French, German or Spanish. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads.

Eleanor Donnelley Erdman Hall is now being built and will be ready in September 1965 for 130 students. This additional residential space is much needed. It will relieve the crowdedness of the present halls as well as provide space for a limited number of additional students. Until the new building is opened, late applicants who are admitted to Bryn Mawr College should expect to live in temporary quarters.

A resident warden is in charge of each hall; she is an instructor or a graduate student, who is also a member of the Dean's staff and, like the Dean, is interested in all aspects of the student's welfare and her progress in college.

Although the College offers a variety of living accommodations, most students have single rooms. Some suites and double rooms are available. For all the rooms the College provides the necessary furniture, but students are expected to supply their own rugs and curtains and any other accessories they may desire.

The maintenance of each hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. It is not possible to arrange for the cooking or serving of special foods or diets in the halls of residence.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Because of the great demand for rooms married students, except in unusual cases, are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day.

NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library where lockers are provided. Their college mail and notices about campus activities are sent there. Rooms in Goodhart Hall for teas and special occasions are also available on request. Eleanor Donnelley Erdman Hall will contain a sitting room and kitchen for the use of non-resident students. The warden of one of the halls of residence serves as warden to the non-residents.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also served on campus at the College Inn.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Dispensary fee of \$15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 40.

Non-Resident Enrolment Fee. A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1. This deposit will be credited against the tuition charge.

Fees

TUITION

THE tuition fee for all undergraduate students, resident and non-resident is \$1550 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about \$2770 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is \$1150, \$1250 or \$1350, according to the size and location of the student's room or rooms. The residence fees are payable as follows:

- \$1150—payable \$575 in October, \$575 in February
- \$1250—payable \$625 in October, \$625 in February
- \$1350—payable \$675 in October, \$675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of \$200 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by August 1 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by August 1, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

SUMMARY OF MAJOR EXPENSES

For resident students, tuition and residence: \$2700, \$2800, or \$2900 according to the type of accommodation.

For non-resident students, tuition: \$1550.

Minor Fees and Charges

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week	25.00	
Three courses of more than 2 hours a week	30.00	
Graduation fee (payable in the senior year)	20.00	
Health Insurance (Students' Reimbursement Plan)	15.00 a year	
Dispensary fee for non-resident students	15.00	

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.

General Information

STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and the Assistant Deans serve as class advisers and are responsible for the administration of the scholarship program. The warden, the college officer in charge of each residence hall, is a member of the Dean's staff and stands ready to assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will always give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in the "Academic Rules for Undergraduate Work." Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the con-

duct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or the Assistant Dean.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept, except where an instructor has requested that attendance be taken. Each instructor will make clear his view concerning absence from class.

Students are required to sign attendance sheets at the last class before and the first class after each vacation.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program, including periodic physical examinations and regular work during the first two years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full

staff of physicians and nurses. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July first. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest X-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every undergraduate is examined in her freshman and senior years by the College Physician and in her freshman year by the Director of Physical Education as to physical development and general health. Students who have special health problems are examined more frequently. A student who at the time of an examination or at any other time during the year is not in good health is required to follow the special regime prescribed, and her extracurricular activities may be limited.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the College physicians during this time and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is nine dollars. The Infirmary is open when college is in session and

during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$15, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE EDUCATION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under the Bryn Mawr Trust Company. The cost of a one- or two-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for three- or four-year contracts. All contracts include the benefit of parent life and total and permanent disability insurance.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually.

Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. These requirements may be met by (a) completing successfully an appropriate course at Bryn Mawr, (b) presenting the appropriate Advanced Placement Test of the College Entrance Examination Board with an honor grade,¹ or, (c) in exceptional circumstances, completing with a grade of at least C a summer school course approved in advance by the department concerned and by the Dean. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school,² or, by passing with an honor grade an Advanced Placement Test, (2) passing examinations offered by the College every spring and fall, or, (3) passing with a grade of at least 70 a college course above the elementary level before the Senior year.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathe-

1. The grade of 5 is required in English and in History.

2. Students admitted under the Early Decision Plan may offer tests taken in the junior year in high school.

matics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. The departments of Education and History of Religion offer elective work which may be allied with certain major subjects but no separate majors.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of $15\frac{1}{2}$ units of work for the A.B. degree is distributed as follows: $4\text{--}5\frac{1}{2}$ units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, required of all students. The remaining units ($3\text{--}4\frac{1}{2}$) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the information of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors $3\frac{1}{2}$, including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

The plan for the curriculum may be outlined as follows:

I. A total of at least $15\frac{1}{2}$ units of work must be presented by all candidates for the A.B. degree. The total usually represents $14\frac{1}{2}$ regular courses and the unit of preparation for the Final Examination in the major subject which takes the place

of an additional advanced course. One or two departments do not permit the unit of preparation to substitute for a course but require it of their majors as additional independent work.

II. Unless the student has been exempted by means of Advanced Placement, the $14\frac{1}{2}$ units of course work must include the following:

1. The course for Freshmen in English Composition.
2. A course in literature to be chosen from the courses designated as appropriate by the departments of English, French, German, Greek, Italian, Latin, Russian and Spanish.
3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.
4. The course in History of Philosophic Thought.
5. A course in social science to be chosen from offerings in Economics, History, Political Science, Psychology, Sociology or Anthropology.
6. Although no specific course or courses are required, each student must demonstrate a knowledge of two foreign languages. (See page 41.)

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least $15\frac{1}{2}$ units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:
 - a. At least three and usually four courses in the major field. Of these one or two must be second-year courses, and one must be advanced.
 - b. The remaining courses to be chosen among the courses listed by the major departments as acceptable for allied work.
2. One unit of preparation for the Final Examination in the major subject. One or two departments do not permit the

unit of preparation to substitute for a course but require it of their majors as additional independent work. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work making up the required total of $15\frac{1}{2}$ are devoted to elective courses. Students may choose freely any courses which do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 29)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

b. Physical Education

All students must meet the requirement in Physical Education, consisting of work taken throughout the freshman and sophomore years (see page 117).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends inter-

ested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects, such as biophysics, geochemistry, or psychophysics. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Three small residence halls serve as language houses for upper-classmen who wish to speak French, Spanish or German. Sophomores, juniors or seniors who wish to live in a language house should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

INSTITUT D'ETUDES FRANÇAISES D'AVIGNON

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open also to undergraduate men and women from other colleges. The *Institut* director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar College or Smith College; in Geneva, Florence, Hamburg, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country where they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be

certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for one quarter to one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.

Courses of Study

1963-1964

Key to Course Numbers and Symbols

- 1, 2, 3indicate elementary and intermediate courses.
*With the exception of Greek 1 and Russian 1
these courses are not part of the major work.*
- 101, 102, etc.indicate first-year courses in the major work.
- 201, 202, etc.indicate second-year courses in the major
work.
- 301, 302, etc.indicate advanced courses in the major work.
- *indicates elective courses, open to all students
without prerequisite unless a specific pre-
requisite is stated.
- athe letter "a," following a number, indicates
a half-course given in the first semester.
- bthe letter "b," following a number, indicates
a half-course given in the second semester.
- cthe letter "c," following a number, indicates
a half-course given two hours a week
throughout the year.
- []Square brackets enclosing the title of courses
indicate that these courses are not given in
the current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Biology

PROFESSORS:	MARY S. GARDINER, PH.D., <i>Chairman</i> L. JOE BERRY, PH.D. JANE M. OPPENHEIMER, PH.D.
DEAN OF THE GRADUATE SCHOOL AND PROFESSOR:	ELEANOR A. BLISS, SC.D.
ASSOCIATE PROFESSOR:	ROBERT L. CONNER, PH.D.
LECTURER:	SARAH FLEMISTER, PH.D.
ASSISTANTS:	STILES DEAN EZELL, JR., M.A. JANE R. MCCONNELL, PH.D. DAVID S. MCDEVITT, M.A.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201, 202 and 203; at least one advanced course and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. Interdepartmental 203: *The Development of Scientific Thought* will also be accepted as allied work. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department.

101. *General Biology*: Mr. Berry, Mr. Conner, Miss Oppenheimer, Miss Gardiner. Laboratory: Mrs. Flemister and assistants.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours per week.

201. *The Biology and Physiology of Vertebrates*: Miss Oppenheimer, Mr. Berry.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

202. *Invertebrate Biology and Cellular Physiology*: Miss Gardiner, Mr. Conner.

A survey of the anatomy and natural history of the invertebrates and a study of the functional problems met by living systems and of the mechanisms by which these are solved. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202 (may be taken concurrently).

203. *Introduction to Genetics*: Miss Gardiner.

A survey of the development of modern genetic theories. Lectures three hours per week in one semester only. Open to students who have completed Biology 101.

301. *Theories of Inheritance*: Miss Gardiner.

A study of the various theories of inheritance leading to modern concepts of heredity in organisms. This may be taken concurrently with Biology 202. Lectures two hours, laboratory six hours (minimum) per week.

- [302. *Developmental Physiology*: Miss Oppenheimer.]

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours (minimum) per week. This may be taken concurrently with Biology 202.

[303. *Physiology of Micro-organisms*: Mr. Berry.]

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours (minimum) per week. Prerequisite: Biology 202, Chemistry 202.

305. *Biochemistry*: Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Chemistry 202, Biology 202; except by permission of the Department. Physics 101 is recommended. This course may be taken without laboratory by students concurrently taking Chemistry 201, an advanced course in Chemistry or doing Honors in Biology. Credit one-half unit.

FINAL EXAMINATION: The final examination consists of two four-hour examinations covering the areas of study of the four years of undergraduate work, and the material of the reading assigned in preparation for it. Both these examinations are required of all students majoring in Biology.

HONORS WORK: Honors work in any of the advanced fields is offered to qualified students.

Chemistry

PROFESSOR:	ERNST BERLINER, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	FRANK B. MALLORY, PH.D. ¹ GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	JAY M. ANDERSON, M.A. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.
INSTRUCTOR:	UN-JIN P. ZIMMERMAN, PH.D.
ASSISTANTS:	DAVID B. ARNOLD, B.S. JEAN MARIE BARTHOLOMEW, A.B. DAVID W. NEWMAN, M.A.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inor-

1. On sabbatical leave for the year, 1963-1964.

ganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101, all 200 courses and one and one-half units of advanced work (exclusive of Chemistry 304a.) Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry*: Mr. Varimbi and assistants.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

101b. *General Chemistry*: Mr. Berliner and assistants.

Systematic qualitative analysis of inorganic substances and the theories on which it is based. A study of the metallic elements. Three lectures, three hours laboratory a week.

102. *Introductory Chemistry and Physics*: Miss Hoyt, Mr. Zimmerman.

See Interdepartmental Course 102, page 115.

201a. *Quantitative Analysis*: Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mrs. Berliner.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Anderson.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one

conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

301b. *Inorganic Chemistry*: Mr. Varimbi.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302 (a and b). *Advanced Organic Chemistry*: Mrs. Berliner, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second ($\frac{1}{2}$ unit).

303a. *Chemical Thermodynamics*: Mr. Anderson.

Two lectures and one conference a week. Laboratory in the second semester only: six hours a week.

303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Zimmerman.

Two lectures and one conference a week. Prerequisite: Chemistry 304a.

304a. *Applied Mathematics for Chemists*: Mrs. Zimmerman.

Two lectures and one conference a week. Prerequisite: Mathematics 201, or the equivalent.

305b. *Advanced Inorganic Chemistry*: Mr. Varimbi.

Two lectures a week.

FINAL EXAMINATION: The examination consists of three parts:

- a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry. Each candidate must elect to answer two of the three parts at an advanced level.

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.

Classical and Near Eastern Archaeology

PROFESSOR:	MACHTELD JOHANNA MELLINK, PH.D. <i>Chairman</i> ¹
ASSISTANT PROFESSORS:	KYLE M. PHILLIPS, JR., PH.D. BRUNILDE SISMONDO RIDGWAY, PH.D.
VISITING LECTURER:	JAMES B. PRITCHARD, PH.D.
INSTRUCTOR:	T. LESLIE SHEAR, M.A.
ELLA RIEGEL	
MUSEUM ASSISTANT:	ANN HARNWELL ASHMEAD, PH.D.

PROFESSOR OF	
ANTHROPOLOGY:	FREDERICA DE LAGUNA, PH.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

REQUIREMENTS IN THE MAJOR SUBJECT: Archaeology 101, 201, 203 and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

101. *An Introduction to Ancient Art*: Mrs. Ridgway, Mr. Phillips.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and studying its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

201a. *Egyptian and Mesopotamian Archaeology*: Mr. Pritchard.

An introduction to the cultures of the ancient Near East, stressing their origins and the rise of local traditions.

1. On sabbatical leave, semester II, 1963-1964.

201b. *Aegean Archaeology*: Mr. Shear.

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

[202a.* *Cultural History of Archaeology*: Miss Mellink.]

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

202b. *Ancient Greek Cities and Sanctuaries*: Mrs. Ridgway.

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on history, religion and mythology connected with each center.

203a. *Greek Sculpture*: Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture*: Mr. Phillips.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

204. *American Archaeology*: Miss de Laguna (See Anthropology 204).

301a. *Greek Vase-Painting*: Mr. Phillips.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture*: Mrs. Ridgway.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[302a. *The Greek Style in Art*: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

304a. *Ancient Monumental Painting*: Mr. Phillips.

The arts of wall-painting and mosaics in Greece and Italy.

FINAL EXAMINATION: Three examinations on any three of the fields covered by the undergraduate lecture courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three examinations in an allied field.

HONORS WORK: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

EXCAVATIONS: The next excavation project as part of the graduate program of the Department will be an investigation of the Bronze Age habitation of Southwestern Anatolia (more specifically ancient Lycia) and will start in the fall of 1963.

Economics

PROFESSORS:	MILDRED BENEDICT NORTHROP, PH.D. <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D. ¹
LECTURER:	SHERMAN R. KRUPP, PH.D.
ASSISTANT:	PAO-YU CHING, M.A.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day

REQUIREMENTS IN THE MAJOR SUBJECT: Economics 101, two units elected from 201, 202 and 203, and a full unit of advanced work. Students are urged to take Mathematics 203 which will count as part of their allied work.

ALLIED SUBJECTS: Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages.

101. *Introduction to Economics*: Miss Northrop, Mr. Hubbard, Mr. Krupp.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the maintenance of economic stability, the provision of social security and international economic relationships.

201a. *Industrial Structure and Market Behavior*: Mr. Krupp.

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises.

201b. *International Economics*: Miss Northrop.

A study of international trade and international finance in theory and practice; the foreign economic policy of the United

1. On leave of absence for the year, 1963-1964.

States; international economic organization; the impact of industrialism on underdeveloped nations.

202a. *Money and Banking*: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy.

202b. *Public Finance and Fiscal Policy*: Mr. Krupp.

A study of local, State and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

41a. (Haverford College) *Labor Economics and Labor Relations*: Mr. Teaf.

24b. (Haverford College) *Mathematical Economics and the Use of Empirical Data*: Mr. Bell.

[301a. *History of Economic Thought*: Miss Northrop.]

An analysis of economic thought in the eighteenth and nineteenth centuries as it developed against the background of social and political change. Readings, among others, in the works of Smith, Malthus, Ricardo, Mill, Marx, Jevons and Marshall.

301b. *Contemporary Economic Thought*: Mr. Hubbard.

An analysis of economic thought in the twentieth century. The national income, economic growth, fluctuations in economic activity, the determinants in the level of income and employment.

302a. *Comparative Economic Systems*: Miss Northrop.

A study of the major forms of economic organization with particular emphasis on those existing today.

FINAL EXAMINATION: The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:

- a. Money and Banking, including Fiscal Policy
- b. Industrial Structure and Market Behavior
- c. International Economics
- d. The Business Cycle and Full Employment
- e. Labor Economics including Wages and Wage Theory

With the permission of the major and allied departments, one examination may deal with an allied subject.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

Education

PRESIDENT	KATHARINE ELIZABETH MCBRIDE,
OF THE COLLEGE:	PH.D., LL.D., L.H.D., SC.D.
PROFESSOR AND DIRECTOR,	RACHEL DUNAWAY COX, PH.D.,
CHILD STUDY INSTITUTE:	<i>Chairman</i>
ASSISTANT PROFESSOR:	ETHEL W. MAW, PH.D.
ASSISTANT PROFESSOR	
AND DIRECTOR,	
THORNE SCHOOL:	SUSAN E. MAXFIELD, M.S.
VISITING LECTURER:	MARVIN ROSEN, PH.D.
ASSISTANT:	LELIA BRODERSEN, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the Freshman year. Work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major if the student very early maps out her course of study. The suggested sequence includes, in the order named, General Psychology, Principles of Teaching, Educational Psychology, Child Psychology or History

and Philosophy of Education, and Principles of Teaching in the Secondary School. The last named course includes supervised practice teaching twelve hours weekly throughout one semester.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a psychological and child guidance clinic supported jointly by the College and the Lower Merion Township Schools. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Space and modern equipment are provided for teaching and research.

101b. *Principles of Teaching*: Miss McBride.

The organization and objectives of the school and principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

[102b. *History of Education*: Mrs. Maw.]

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

201a. *Educational Psychology*: Mrs. Cox.

Principles of psychology applied to teaching and learning. Problems of motivation, evaluation and adjustment. Group process and learning. Two hours laboratory per week.

[202a. *Child Psychology*: Mrs. Cox.]

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101a.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

English

PROFESSORS:	K. LAURENCE STAPLETON, A.B., <i>Chairman</i>
	MARY KATHARINE WOODWORTH, PH.D.
ASSOCIATE PROFESSORS:	WARNER B. BERTHOFF, PH.D.
	ISABEL GAMBLE MACCAFFREY, PH.D.
ASSISTANT PROFESSORS:	JAMES H. BRODERICK, PH.D.
	ROBERT B. BURLIN, PH.D.
VISITING LECTURER:	SHERMAN H. HAWKINS, PH.D.
LECTURER AND DIRECTOR OF THE THEATRE:	ROBERT HAWES BUTMAN, M.A.
LECTURER:	CATHERINE RODGERS, PH.D.
INSTRUCTORS:	SANDRA M. BERWIND, M.A.
	ELEANOR WINSOR LEACH, PH.D.
	PETER J. LEACH, M.F.A.
	RAMONA T. LIVINGSTON, A.B.
	DORIS QUINN, M.A.

To the student planning to major in English the Department offers courses covering all periods of English literature.

The student selects her fields within this broad range and devotes special attention to one period or literary genre.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, History of Religion, Music, Philosophy, certain courses in Classical Archaeology, Political Science 201(a) and 302 (b), and Interdepartmental 203 (*The Development of Scientific Thought*). Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading:* Mrs. MacCaffrey, Mr. Burlin, Mr. Broderick, Miss Rodgers, Mrs. Livingston, Mrs. Berwind, Mrs. Quinn, Mrs. Leach, Mr. Leach.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance. There will be weekly papers and discussions, and regular conferences.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing:* Mr. Leach.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Pre-

requisite: English 15 at Bryn Mawr or the written permission of the instructor.

210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

[211.* *Verse Composition*: Miss Stapleton.]

Original verse composition, with a study of the principles of form.

215a.* *Prose Writing*: Mr. Leach.

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the permission of the instructor.

[306* and 306c.* *Advanced Writing*.]

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. *Introduction to English Literature*: Miss Rodgers, Mrs. Leach.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *Chaucer*: Mr. Burlin.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Hawkins.

During the year all the plays are read, and several are studied in detail.

203. *The Romantic Period*: Mr. Broderick.

English Literature from 1789 to 1832. Attention is centered upon the poets.

[204. *The Victorian Period*: Mr. Broderick.]

Attention is centered upon the poets.

205. *Representative English Novelists*: Mr. Berthoff.

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the eighteenth and nineteenth centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

[206a. *English Drama from the Restoration to Robertson*.]

[206b. *Modern English Drama*.]

The drama from 1865 to the present day.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Berthoff.

From the beginnings to the present day.

212b. *Blake*: Miss Woodworth.

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

[300. *Old English Literature*: Mr. Burlin.]

By special permission of the instructor, students may be permitted to elect a supervised unit of work in which, after some training in old English grammar, selected texts are read.

301. *Mediaeval Literature*: Miss Rodgers.

Readings in Middle English texts (exclusive of Chaucer) with emphasis on the lyric, the romance, the mystery play and certain contemporaries of Chaucer such as Gower and Langland.

302. *The Sixteenth Century*: Mrs. MacCaffrey.

Emphasis will be placed on the poetry, beginning with Wyatt, and with special attention to Spenser and the non-dramatic poetry of Shakespeare. There will also be reading in the prose writing and the background of the period.

[303a. *The Drama from the Beginnings to 1642.*]

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

304. *The Seventeenth Century*: Miss Stapleton.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About a third of the time is devoted to Milton, and special attention is given to the thought of the period.

[305. *The Eighteenth Century*: Miss Woodworth.]

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that of which embraces her special field.
 - a. The Middle Ages (to 1500)
 - b. The Renaissance (1500-1660)
 - c. Neo-Classicism and Romanticism (1660-1832)
 - d. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on May 3.

French

ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D. ¹
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSOR:	BERNARD TOSCANI, PH.D.
LECTURER:	M. PAULINE JONES, M.A.
INSTRUCTOR:	ELLEN S. GINSBERG, M.A.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. Another second-year course is devoted to increasing the students' competence in spoken and written French.

In the advanced courses a more detailed study of certain authors, genres and movements is made. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203c, the use of the Laboratory forms an integral part of the course. This work should be supplemented by spending the Junior year in France or attending a course of summer study in France such as the *Institut* in Avignon or French-speaking surroundings. Students who wish to improve their ability to speak French are urged to live at the French house for at least one year.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101. Occasionally, students with exceptional preparation in French may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. On sabbatical leave, semester II, 1963-1964.

1. *Elementary French*: Miss Jones, Mrs. Ginsberg.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of French in most courses in school.

2. *Intermediate French*: Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language*: Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800*: Mr. Guggenheim, Mr. Maurin, Miss Jones.

202. *French Literature from 1800 to 1950*: Mr. Guggenheim, Mr. Maurin.

- 203c. *Advanced Training in the French Language*: Mr. Guggenheim, Miss Jones.

301. *French Lyric Poetry*: Mr. Maurin, Miss Jones.

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

- [302. *French Drama*: Mr. Maurin, Mr. Guggenheim.]

Special study is made of the drama of the seventeenth and twentieth centuries.

- [303. *The French Novel from 1700 to 1950*: Mr. Guggenheim, Mr. Maurin.]

304. *French Essayists and Moralists*: Mr. Guggenheim, Mr. Maurin.

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

JUNIOR YEAR ABROAD: Students majoring in French may, by a joint recommendation of the Dean of the College and the

Department of French, be allowed to spend their Junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

SUMMER STUDY: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Études Françaises d'Avignon*, which is held under the auspices of Bryn Mawr College. The *Institut* is designed for selected men and women undergraduates with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

PROFESSORS:	EDWARD H. WATSON, PH.D., <i>Chairman</i> LINCOLN DRYDEN, PH.D. DOROTHY WYCKOFF, PH.D.
ASSISTANT PROFESSOR:	JEROME REGNIER, PH.D.
ASSISTANT:	RICHARD STANDISH GOOD, M.S.

The Department seeks to make students more aware of the physical, natural world around them; to teach them how the

present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology*: Mr. Watson, Miss Wyckoff, Mr. Rignier, Mr. Good.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology*: Mr. Dryden, Miss Wyckoff, Mr. Rignier, Mr. Good.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours of laboratory or field work a week. A three-day field trip is taken in the spring.

201. *Mineralogy*: Mr. Watson.

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory a week.

[202. *Paleontology*: Mr. Dryden.]

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution. Three lectures and three hours of laboratory a week.

[301. *Structural and Field Geology*: Mr. Watson.]

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

302. *Stratigraphy*: Mr. Dryden.

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Mr. Watson, Mr. Regnier.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: 1½ units.

[305. *Geography*: Miss Wyckoff.]

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the faculty.

(See Interdepartmental Course 203, page 115.)

FINAL EXAMINATION: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
 - a. An additional special examination in Geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

German

ASSOCIATE PROFESSOR:	CHRISTOPH E. SCHWEITZER, PH.D. <i>Chairman</i>
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A. HUGO SCHMIDT, PH.D. WILLIAM Z. SHETTER, PH.D.
INSTRUCTOR:	GERLINDE JORDAN

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 102c the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Germany.

REQUIREMENTS IN THE MAJOR SUBJECT: The normal course sequence for the major is German 101, 102c, 202, and at least one advanced course. Special consideration is given to students who have supplemented their linguistic training as outlined above.

ALLIED SUBJECTS: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature:* Mr. Schmidt.

Introduction to the main periods of German literature. Interpretation of texts from the early period to the present.

102c. *German Conversation and Composition*: Miss Jordan.

Active use of the language in speaking and writing; discussion of topics; compositions; reports.

202a and b. *The Age of Goethe*: Mr. Schweitzer.

German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

[301. *Introduction to Germanic Philology*: Mr. Shetter.]

Brief introduction to the linguistic method. History of the language situation in the German-speaking world from the earliest records until the present day.

[302. *German Language and Literature of the Middle Ages*: Mr. Shetter.]

Introduction to the history of the German language; reading of representative works such as the *Nibelungenlied* and selections from *Minnesang*.

[303. *The Classics of the Nineteenth Century*: Mr. Schmidt.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

[304. *Modern German Literature*: Mr. Schmidt.]

Reading and discussion of works from dramatists (Hauptmann, Brecht, Zuckmayer), novelists (Mann, Hesse, Kafka) and lyric poets (George, Hofmannsthal, Rilke).

[305a. *The German "Novelle"*: Mr. Schmidt.]

Discussion of the evolution of this form, and close analysis of representative works.

306. *The German Drama*: Mr. Schweitzer.

Study of various dramatic forms. Emphasis on parallel European and modern developments.

[307b. *German Poetry*: Mr. Schmidt.]

Study of the work of major poets from a number of literary periods. Various critical approaches will be discussed and used.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences, and a long paper.

Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D. ¹ MABEL LOUISE LANG, PH.D., <i>Chairman</i>
LECTURER:	PIERRE A. MACKAY, M.A.
INSTRUCTOR:	ELEANOR R. CEDERSTROM, A.B.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201, and 301.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.

1. *Elementary Greek*: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* and *Crito* of Plato.

101. *Herodotus and Tragedy*: Miss Lang, Mr. MacKay.

Private reading and prose composition are required.

1. On sabbatical leave for the year, 1963-1964.

102c. *Homer*: Mrs. Cederstrom.

201. *Thucydides and Tragedy*: Mrs. Cederstrom.

Private reading and prose composition are required.

301. *Lyric Poetry and Comedy*: Mr. MacKay.

[302. *Early Greek Literature: History and Criticism*: Mr. Lattimore.]

The student selects her work from this field in consultation with the Department.

203.* *Greek Literature in Translation*: Miss Lang, Mr. MacKay.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

History

PROFESSOR: CAROLINE ROBBINS, PH.D., *Chairman*

ASSOCIATE PROFESSORS: ARTHUR P. DUDDEN, PH.D.

DAVID J. HERLIHY, PH.D.

ASSISTANT PROFESSORS: MARY MAPLES DUNN, PH.D.

BARBARA M. LANE, PH.D.

ALAN SILVERA, PH.D.

ASSISTANT: SARAH RUBIN, M.A.

PROFESSOR OF LATIN: THOMAS ROBERT SHANNON BROUGHTON, PH.D.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical

method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

REQUIREMENTS IN THE MAJOR SUBJECT: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Mediaeval History, or an equivalent approved by the Department.

ALLIED WORK: Courses in Economics and Political Science are recommended for History majors. Advanced courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin and Archaeology are especially recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present, as well as a deeper understanding of special problems in European history and historical interpretation, by means of investigation of a series of selected topics. In connection with these topics, which range from the general question "What is history?" to "Renaissance Florence: The Medici as patrons, politicians, and bankers" to "The Diplomacy of Imperialism: The Congress of Berlin," intensive reading of sources, general discussion, and independent study is required.

Students planning to major in History should ordinarily take 205 (ancient) or 101: if both seem necessary, the Department should be consulted.

201. *History of England to 1783*: Miss Robbins.

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention.

Semester I ends with discussion of the causes of the English Civil War, 1642; Semester II with changing social structure of twentieth-century Britain.

This course is open to all students. Given in alternate years.

202. *The Growth of the United States of America*: Mr. Dudden.

A study of American life in the nineteenth and twentieth centuries, the disruptions and the transformations from the original Republic.

[203. *Mediaeval Civilization*: Mr. Herlihy.]

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1830*: Mr. Silvera.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period. The course concludes with the Vienna settlement and the Congress system.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Silvera.

A survey of European developments, with particular emphasis on political and social history, from the age of Metternich through the age of Bismarck to the rise of imperialism. Among the topics considered are the effects of the Industrial Revolution, the Revolutions of 1848 and the growth of nationalism, the varieties of socialism and the diplomacy of imperialism.

205.* *Ancient History*: Mr. Broughton.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the Hellenistic world to the

reign of Constantine I. The course demands essays, and reading of typical sources for each period.

[206. *History of Russia*: Mr. Herlihy.]

A survey of Russian history until the Revolution of 1917. The first semester is devoted to Russian history until Peter the Great; special emphasis will be placed on the Byzantine background of Russian history. The second semester deals with Russia under Tsarism.

207a. *Age of Revolution: America in the Eighteenth Century*: Mrs. Dunn.

A study of the thirteen English colonies, directed toward the general problem of the interpretation of the American Revolution. Particular emphasis will be placed on social and intellectual developments, and on the historiography of the Revolution.

207b. *Latin America: Colonies and Revolutions*: Mrs. Dunn.

Such topics as the Conquest, the transplanting of Spanish institutions and their modification in the New World, social structure, colonial economy, the Church in America, the character of revolutionary leadership, will be explored as a basis for understanding modern Latin America.

208. *Social and Economic History of Mediaeval and Early Modern Europe*: Mr. Herlihy.

Topics considered include European economic geography, agricultural settlements, demographic trends, rise of the manor and seigneurie, rise and development of towns, agricultural and industrial technology, commerce and commercial institutions, social structure and economic theories. Particular attention is paid to the period between the seigneurial-urban revolution of the eleventh century and the industrial revolution of the eighteenth.

[209a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries*: Miss Robbins.]

Among topics discussed will be: the decline of Spain, Poland, and the Mogul Empire; the ascendancy of France; the rise of Sweden, Russia, Prussia, the Manchu Dynasty; mercantilism and the commercial revolution; the structure of absolutism, mixed monarchy and federal governments; the development and rivalries of the French, English and Dutch East India Companies;

religious controversies and movements, Jesuit, Jansenist, Deist, Mystic.

[210b. *Topics in the History of the Modern Near East*: Mr. Silvera.]

A survey of the development of the Arab world and Turkey in the nineteenth and twentieth centuries with special emphasis on political and intellectual history and the social structure of the emerging Arab states. The legacy of Islam, the decline of the Ottoman Empire, the impact of the West and the rise of Arab nationalism are among the topics considered.

301. *Europe in the Twentieth Century*: Mrs. Lane.

The first semester reaches and includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303. *Recent History of the People of the United States*: Mr. Dudden.

Studies of social change and response since the late nineteenth century, with consideration of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics, and the main currents of thought and artistic expression. With permission, students may elect one semester only.

[304a. *English History in the Nineteenth Century*: Miss Robbins.]

Special attention is given to the structure of English government and its adaptation to modern economic and social conditions as well as to the growth of the second empire and its institutions. Given in alternate years.

305. *Renaissance and Reformation*: Mrs. Lane.

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

306a. *The Enlightenment*: Miss Robbins.

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. *Great Historians*: Miss Robbins, Mrs. Dunn.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

FINAL EXAMINATION: The final examination for students in History consists of three parts, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in mediaeval or in modern history. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1300
3. History of Europe 1300 to 1648
4. History of Europe 1648 to 1830
5. History of Europe 1830 to 1950
6. History of England (Special field)
7. History of the United States (Special field)
- [8. History of Russia (Special field)]

The examinations in Ancient, English, Russian and American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third examination in a field of allied work.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

PROFESSOR:	CHARLES MITCHELL, M.A., B.LITT., <i>Chairman</i>
ASSOCIATE PROFESSOR:	WILLIAM C. LOERKE, M.F.A., PH.D.
VISITING LECTURER:	STELLA KRAMRISCH, PH.D.
INSTRUCTORS:	GERALD M. ACKERMAN, M.F.A. SHELDON A. NODELMAN, M.A.
ARTIST IN RESIDENCE:	FRITZ JANSCHKA

The history of art is studied as an historical discipline. The Department normally offers an introductory course and a series of special courses. Workshop supervision is also offered by the Artist in Residence, for which there is no tuition fee and academic credit is not granted.

REQUIREMENTS FOR THE UNDERGRADUATE MAJOR: A minimum of four full-year courses (or the equivalent) is required, consisting of the introductory course (normally) and three others. A 200 course may be modified to count as advanced at the discretion of the Department. It is advisable for anyone contemplating a major in the history of art to consult the Department as early as possible in her college career.

ALLIED SUBJECTS: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History:* Mr. Loerke, Mr. Mitchell, Mr. Nodelman.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from mediæval to modern times. Studio work, two hours weekly, with Mr. Janschka is also required.

201. *Mediaeval Art:* Mr. Loerke.

Selected topics and works from the fourth to the fourteenth century.

202. *Renaissance Art:* Mr. Mitchell.

European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art*: Mr. Ackerman.

European art from the late sixteenth to the early eighteenth century.

204. *Modern Art*: Mr. Nodelman.

European art from the late eighteenth to the twentieth century.

205b. *Indian Art from the Third Millenium B.C. to the Sixth Century A.D.*: Miss Kramrisch.

A course involving study of monuments and documents, including original objects in the Philadelphia Museum of Art. No previous study of Oriental art required.

300a. *Texts for Art-Historians*: Mr. Mitchell.

A course designed to give advanced students of art-history instruction and practice in the reading and interpretation of written documents bearing on the history of art. Participants need an elementary knowledge of Latin and a working knowledge of at least two of the following languages: French, Italian, German.

301b. *Academies of Art*: Mr. Ackerman.

An advanced course on the history and art academies from Renaissance to modern times.

311b. *Art in Rome, Twelfth-Thirteenth Centuries*: Mr. Loerke.

A course for advanced students of mediaeval culture requiring a working knowledge of three of the following languages: Latin, German, French, Italian.

324a. *The Theory and Practice of Cubism*: Mr. Nodelman.

An advanced course for students of modern art, requiring a knowledge of French. German will also be useful.

FINAL EXAMINATION: The final examination for students in the History of Art consists of three parts of three hours each:

1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special field or topic.

HONORS WORK: Honors work is offered to students recommended by the Department.

History of Religion

PROFESSOR OF LATIN:	AGNES KIRSOPP MICHELS, PH.D.
ASSOCIATE PROFESSOR OF PHILOSOPHY:	JEAN A. POTTER, PH.D.
INSTRUCTOR:	DOROTHY CORBETT, PH.D.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work. Philosophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination.

No major is offered in the History of Religion.

[103. *Literary History of the Bible*: Mrs. Michels.]

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a.* *History of Ancient Israel*: Miss Corbett.

The rise of Hebrew religion against its ancient Near Eastern background, from Mesopotamia until the Christian era. Focused on the Old Testament, with special attention to Biblical archaeology, social history of the Hebrew nation, and theological development of Judaism.

201b.* *Christian Beginnings*: Miss Corbett.

Introduction to the New Testament, with emphasis on the post-exilic Jewish background, intertestamental literature, the Dead Sea Scrolls, the mission of Jesus and formation of the Early Church.

202.* *Man and His Religions*: Miss Corbett.

The nature of religious experience, ritual and social institutions, as illustrated by primitive religion and several contemporary religions. The first semester will emphasize the methodology of van der Leeuw, Eliade, Durkheim and Weber, and primitive religion. The second semester will give illustrations from Hinduism, Buddhism and Islam. May be taken as a half-unit course either for Semester I only or in Semester II with special permission of the instructor.

203a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

203b. *Mediaeval Philosophy*: Miss Potter.

The history of the development of mediaeval philosophy from its origins in classical and Patristic thought to the fifteenth century.

This course is also listed as Philosophy 203.

Italian

PROFESSOR: ANGELINE HELEN LOGRASSO, PH.D.,
Chairman

ASSISTANT PROFESSOR: BERNARD TOSCANI, PH.D.

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 1, 101, 201, 202, and one other advanced course. For students who enter College with Italian, proper substitutions will be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests. In all courses students are urged to use tapes available in the Language Laboratory.

1. *Italian Language*: Miss Lograsso.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week.

101. *Intermediate Course in the Italian Language*: Mr. Toscani.

Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

102C.* *Dante in English Translation*: Miss Lograsso.

The New Life and Divine Comedy.

[103c.* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

[201. *Classics in Italian Literature*: Miss Lograsso, Mr. Toscani.]

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language*: Miss Lograsso.]

Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

304. *Italian Literature of the Romantic Period*: Miss Lograsso, Mr. Toscani.

JUNIOR YEAR ABROAD: Students approved by the Department and the Dean may be recommended for the Junior year in Perugia and Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; ability to write the language.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

PROFESSORS:	THOMAS ROBERT SHANNON BROUGHTON, PH.D., <i>Chairman</i> AGNES KIRSOPP MICHELS, PH.D.
ASSOCIATE PROFESSOR:	MYRA UHLFELDER, PH.D.
INSTRUCTOR:	THEODORA STILLWELL, A.B.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical and Near Eastern Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Mrs. Michels.

This course is planned to cover three units of entrance Latin. Students who have completed it satisfactorily may take Latin 101.

[2. *Intermediate Latin*.]

The course includes a review of grammar and reading in prose and poetry equivalent to the third and fourth years of entrance Latin. Prerequisite: two units of entrance Latin.

101. *Latin Literature*: Mrs. Michels, Miss Uhlfelder, Miss Stillwell.

Selections will be read from the poems of Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius in the first semester; and from Livy's *History* and the *Odes* of Horace in the second. Prerequisite: at least three units of entrance Latin.

201a. *Horace and the Elegiac Poets*: Mrs. Michels.

Reading from the *Satires* and *Epistles* of Horace, and from Tibullus, Propertius and Ovid, with special attention to the character of late Augustan literature.

201b. *Latin Literature of the Silver Age*: Mr. Broughton.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202c.* *Mediaeval Latin Literature*: Miss Uhlfelder.

The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas. Prerequisite: four units of entrance Latin or Latin 2, or Latin 101.

202g. *Latin Style*: Miss Uhlfelder, Mrs. Michels.

A study of the style and technique of the main Roman authors and of the chief meters of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Mr. Broughton.]

302a. *Cicero and Caesar*: Mr. Broughton.

302b. *Lucretius*: Miss Uhlfelder.

FINAL EXAMINATION: The final examination for students majoring in Latin consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
 - a. Latin Literature of the Republic
 - b. Latin Literature of the Empire
 - c. Latin Literature of the Ciceronian and Augustan Age
 - d. Roman History from the Sources (100 B.C. to 70 A.D.)
3. An examination on one of the following subjects:
 - a. An allied subject (Students are advised if possible to take the third examination in Greek)

- b. A second subject from Group 2 (Choice must avoid duplication of material)
- c. The development in Latin literature of an important literary type
- d. An important period or type in Mediaeval Latin literary type
- e. Latin Prose Style

HONORS WORK: Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

PROFESSORS:	JOHN C. OXTOBY, M.A., <i>Chairman</i> MARGUERITE LEHR, PH.D.
ASSOCIATE PROFESSOR:	FREDERIC CUNNINGHAM, JR., PH.D.
ASSISTANT:	FRANCES C. PASCALE, A.B.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202C, 301, 303a, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Calculus, with Analytic Geometry*: Mr. Oxtoby, Mr. Cunningham.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic

geometry and trigonometry. The interplay between mathematical ideas and applications is exploited.

103. *Algebras and Probability Models*: Miss Lehr.

This course reflects the growing contemporary interest in 1) the methods of Boolean algebra, matrix algebra and linear programming; and 2) the basic probability distributions essential for statistical applications such as sampling and correlation studies. The biological and social sciences, and current computer methods, will supply the motivating questions, but the emphasis is on principles and fundamental concepts of mathematics.

201. *Second-Year Calculus*: Mr. Cunningham.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics and chemistry.

202c. *Solid Analytic Geometry and Algebra*: Miss Lehr.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. Oxtoby.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

[302b. *Introduction to Geometric Theories*.]

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

303a. *Introduction to Abstract Algebra*: Miss Lehr.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

[304a. *Theory of Probability and Statistics*.]

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability

distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

[305b. *Topics in Differential Geometry*: Miss Lehr.]

310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

311b. *Differential Equations*: Mr. Cunningham.

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 301 (may be taken concurrently).

FINAL EXAMINATION: The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

Music

PROFESSOR AND DIRECTOR
OF CHORUS:

ROBERT L. GOODALE, A.B., B.MUS.,
A.A.G.O., *Chairman*

PROFESSOR AND DIRECTOR
OF ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.

ASSOCIATE PROFESSOR:

SYLVIA W. KENNEY, B.MUS., PH.D.¹

LECTURER:

ISABELLE CAZEAUX, PH.D.

ASSISTANT:

CAROLINE M. CUNNINGHAM, M.A.

DIRECTOR OF ORCHESTRA: WILLIAM H. REESE, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and

1. On leave of absence for the year, 1963-1964.

sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings assigned by the Department.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Mr. Alwyne.

A comprehensive survey from the period of Bach to the end of the nineteenth century, with special emphasis on the technique of intelligent listening.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *The Romantic Period:* Miss Cazeaux.

An intensive study of nineteenth-century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis:* Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203a. *Bach*: Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

203b. *The Classical Period*: Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

[301a. *Opera and Music Drama*: Miss Kenney.]

The evolution of opera from Gluck to Berg. Prerequisites: Music 101 and 102 or their equivalents.

[301b. *Music of the Twentieth Century*: Mr. Goodale.]

The continuing stream of romanticism in modern adaptations. Neo-classicism and Expressionism. Experimental new phases in linear counterpoint, polyrhythms, polytonality and micro-tonality. Prerequisites: Music 101, 102 and 202 or their equivalents.

302a. *Mediaeval and Early Renaissance Music*: Miss Cazeaux.

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301a.

302b. *Late Renaissance and Baroque Music*: Miss Cazeaux.

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

303a. *Orchestration*: Mr. Goodale.

Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

303b. *Russian Music*: Mr. Alwyne.

The development of Russian music from the time of its emergence from foreign domination in the early nineteenth century to the period of the Second World War. Prerequisites: Music 101, 102 or their equivalents.

304a. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme. Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

HONORS WORK: Honors work is offered for students recommended by the Department.

FINAL EXAMINATION: The final examination consists of three parts with three-hour examinations in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in college services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, selected from members of the Chorus, frequently sings at concerts and occasionally goes on trips as an independent unit.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i> JOSÉ MARÍA FERRATER MORA, <i>Lic.F.L.</i> ¹ HUGUES LEBLANC, PH.D. ISABEL SCRIBNER STEARNS, PH.D.
ASSOCIATE PROFESSORS:	GEORGE L. KLINE, PH.D. JEAN A. POTTER, PH.D.
LECTURER:	ROBERT E. GAHRINGER, PH.D.
ASSISTANTS:	JENNIFER ASHWORTH, B.A. PAUL A. BENOFKY, B.A.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics, Hegel, Philosophy of Religion or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credits.

ALLIED SUBJECTS: Biology, Chemistry, Economics, English, Greek, French, German, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Russian and certain courses in History of Religion and Sociology and Anthropology.

1. On sabbatical leave for the year, 1963-1964.

101. *History of Philosophic Thought*: Mr. Nahm, Miss Stearns, Mr. Leblanc, Mr. Kline, Miss Potter, Mr. Gahringer.

Some writings of the major philosophers, classic and modern, are studied and discussed.

- 201a. *German Idealism*: Mr. Gahringer.

The philosophy of Kant.

- 201b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

- 202a. *Logic*: Mr. Leblanc.

An introduction to modern logic.

- 202b. *Ethics*: Mr. Nahm.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

- 203a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

- 203b. *Mediaeval Philosophy*: Miss Potter.

The history of the development of mediaeval philosophy from its origins in classical and Patristic thought to the fifteenth century.

- 205a. *Russian Ethical and Social Theory*: Mr. Kline.

A critical survey of major trends in Russian ethics and social philosophy from the eighteenth century through the Soviet period, with principal emphasis upon nineteenth-century thinkers, both Marxist and non-Marxist.

- [205b. *Hegel*: Mr. Kline.]

A study of Hegel's philosophy, with emphasis upon *The Phenomenology of Mind* and with some reference to the Hegelian influence on Existentialism.

- 301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism.

301b. *Theory of Knowledge*: Mr. Leblanc.

An analysis of the scope, structure and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

[302b. *Philosophy of History*: Mr. Ferrater Mora.]

The philosophical interpretation of history, its meanings and laws.

303a. *Descartes and Spinoza*: Miss Potter.

A study of the metaphysical systems of Descartes and Spinoza, and their background in scholastic and Renaissance thought.

303b. *Contemporary Philosophy*: Miss Potter

An outline and appraisal of some major present-day schools, such as Existentialism, Neo-Scholasticism, Logical Positivism, and Analytic Philosophy.

304b. *Political Philosophy*: Mr. Gahringer.

A systematic study of the nature of the state and the foundations of political obligation, with a discussion of the philosophical issues involved in such problems as punishment, censorship, and liberalism and conservatism. Readings will be assigned from historical and contemporary sources.

FINAL EXAMINATION: The final examination consists of three written examinations in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy or Philosophy of Religion. For the first two, a subject such as "causation," "mind," "freedom" or "time" is studied in the writings of important philosophers. For the third, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.

Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	W. PAUL GANLEY, PH.D.
VISITING LECTURER:	FELIX M. BEIDUK, PH.D.
ASSISTANTS:	THOMAS J. HIGGINS, B.S. WILLIAM C. SELLYEY, B.S. RAYMOND C. SWEENEY, JR., B.S. HERBERT E. WYLEN, B.S.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101 or 102, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301 through 305; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics*: Mr. Michels, Mr. Pruett.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

102. *Introductory Chemistry and Physics*.

See Interdepartmental Course 102, page 115.

201a. *Electricity and Magnetism*: Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101 or 102, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Michels.

Geometrical optics, interference and diffraction phenomena, polarization. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical Mechanics*: Mr. Ganley.

Newtonian mechanics of particles and of rigid bodies, special relativity, generalized mechanics. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

303b. *Thermal Properties of Matter*: Mr. Michels.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Michels, Mr. Ganley.

The foundations of classical mechanics and electromagnetic theory, including generalized mechanics, vibrating systems, the wave equation, Laplace's equation, Maxwell's equations, electromagnetic waves. Mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.

305c. *Physical Measurements*: Mr. Michels, Mr. Ganley.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

[351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101 or 102, Mathematics 101 and second-year work in Chemistry or Biology.

FINAL EXAMINATION: The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students). The student will devote one semester of the preparation for the final examination in independent work and reading for this examination.

HONORS WORK: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

ASSOCIATE PROFESSORS: GERTRUDE C. K. LEIGHTON, A.B., LL.B.,
Chairman

PETER BACHRACH, PH.D.

MELVILLE T. KENNEDY, JR., PH.D.

LECTURER: CHARLES E. FRYE, M.A.

ASSISTANT: ALICE F. EMERSON, A.B.

**DEAN OF THE
COLLEGE:**

DOROTHY NEPPER MARSHALL, PH.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Political Science are required to take four units of work in Political Science, two of which must be second-year work and at least one advanced. The fourth unit may comprise either second- or third-year courses. Two units of allied work are also required. The second-year courses in Political Science are open to students who are not majors in the Department if they have completed one unit in allied subjects. With the permission of the Department, various courses at Haverford College may be taken for major or allied credit.

ALLIED SUBJECTS: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

201a. *American National Politics*: Mr. Bachrach.

An analysis of the political behavior of individuals and groups within the context of the legislative and administrative process will be emphasized. Theories on the governmental process in the United States will be incorporated within this analysis and recent studies on political sociology will be relied upon as background material.

202b. *Western Political Theory: Plato to 1600*: Mr. Frye.

A study of the development of theory in three periods: Greek; Roman and Christian; and mediaeval, concluding with a discussion of the problems of theory in the sixteenth century.

203a. *Government and Politics in East Asia*: Mr. Kennedy.

An approach to modern Asian politics (prior to 1950) through a study of the major philosophic and institutional features of dynastic China and areas under Chinese cultural influence. India and Japan are considered for comparative purposes.

204b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A consideration of the central concepts in communism and nationalism and of their role in the sweeping changes Asia has experienced since World War II.

205a. *Government and Politics in Western Europe*: Mr. Frye.

A comparison of contemporary political systems in the light of their historical development; with special reference to Britain, France and Germany.

206b. *Political Science: Scope and Method*: Mr. Kennedy.

An examination of the central questions in the field; of the various methods used in searching for answers, and of the boundaries of the discipline which demarcate it from other social sciences.

207a. *The Soviet System*: Mr. Hunter, Haverford College.

See Interdepartmental Course 207a, page 116.

208b. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

209a. *Western Political Theory: 1600 to the Present*: Mr. Bachrach.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

210b. *American Constitutional Law*: Mr. Bachrach.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

301a. *Law and Society*: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, business and government are discussed.

302b. *Law, Policy and Personality*: Miss Leighton.

Selected topics in the study of the relation between the legal process and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken any one of the following: Political Science 208b, 210b and 301a; or with permission of the instructor.

303a. *Problems in International Politics*: Mr. Kennedy.

An analysis of the origins of the Cold War, characteristics of the major opposing systems, the significance of neutralism,

the role and modes of diplomacy, and the meaning of balance in a nuclear age. The course will emphasize extensive reading and frequent individual reports.

304b. *West European Integration*: Mr. Frye.

An examination of the nature and significance of West European integration since World War II, with special reference to the various regional organizations which have been established or proposed.

305a.**Introduction to Latin American Politics*: Mrs. Marshall.

Basic characteristics of the political process in Latin America: the political structure, and the principal issues, with emphasis on their meaning for the United States.

[306b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz (Department of Economics).]

See Interdepartmental Course 306b, page 116.

307a. *Modern Germany*: Mr. Frye.

308b. *American Political Theory*: Mr. Bachrach.

The development of American political ideas from the Revolution to the present, with some attention to the English and Colonial origins.

FINAL EXAMINATION: The final examination consists of two three-hour examinations, the first of which is the general examination in Political Science and must be taken by all seniors majoring in the Department. The second represents a more limited field and is to be selected from the following: Political Theory; The Legal Process; The American Political Community; World Political Systems. If desired, the second part of the final examination may deal with an allied subject. Seniors are expected to attend the weekly senior conference.

HONORS WORK: In addition to the course requirements, one unit of Honors work may be taken by Political Science majors under the supervision of members of the Department. This involves a weekly conference by the student with her supervisor; independent reading, research and, where necessary, field work; and a written report on the topic selected.

Psychology

PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i> RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	DONALD ROBERT BROWN, PH.D., ROBERT SIMON DAVIDON, PH.D. RICHARD CHARLES GONZALEZ, PH.D. WILLIAM AUGUST WILSON, JR., M.D., PH.D.
LECTURER:	KATHRYN ELINOR KOENIG, PH.D.
ASSISTANTS:	PAUL L. BAINBRIDGE, A.B. BARRY BERGER, B.S.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychology. Problems of application are considered, and the relation of psychology to other natural and social sciences is emphasized. The major program prepares the student for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101; two of the following four courses: Psychology 201a, 203b, 205a, 301b; two of the following four courses: Psychology 202b, 302a, 303b, 304b; Psychology 307a; and one additional unit in Psychology. Psychology 204a is strongly recommended to students preparing for graduate work.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science, and Sociology.

101a. *General Psychology*: Mr. Gonzalez.

A survey of basic facts and principles: perception, motivation, emotion, learning, thinking. Three hours of lecture and two hours of laboratory each week.

101b. *Social Psychology*: Mr. Brown.

The psychological determinants of social behavior. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101a.

201a. *Comparative Psychology*: Mr. Bitterman.

The psychology of animals: instinctive activities, motivation, learning, the evolution of intelligence. Three hours of

lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

202b. *Psychological Testing*: Mr. Davidon.

Trait assessment and prediction; demonstration and evaluation of principal tests; scaling and test development; the structure of human abilities. Three hours of lecture and two hours of laboratory each week. Prerequisites: Psychology 101 and Psychology 204a or permission of instructor.

203b. *Human Learning and Thinking*: Mr. Bitterman.

Verbal learning and retention; meaning and creative thought. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 201a.

204a. *Experimental Methods and Statistics*: Mr. Davidon.

Measurement and the design of experiments; descriptive statistics, probability, association, testing of hypotheses. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

205a. *Perception*: Mr. Davidon.

Differentiation and organization of the environment; the body perceived; attention, value, and past experience in judgment. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

301b. *Physiological Psychology*: Mr. Wilson.

The physiological and anatomical bases of experience and behavior. Three hours of lecture and three hours of laboratory each week. Prerequisite: Psychology 101.

302a. *Psychology of the Normal Personality*: Miss Koenig.

Developmental, clinical and experimental evidence relating to the 'normal' personality. Supervised case-study. Prerequisite: Psychology 101.

303b. *Advanced Social Psychology*: Miss Koenig.

The psychological implications of man's social existence. Prerequisite: Psychology 101 or permission of the instructor.

304b. *Psychology of the Abnormal Personality*: Mrs. Cox.

Concepts of normality, types of abnormality, methods of investigation and principles of psychotherapy. Three hours of

lecture each week and occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 101.

306a and b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

307a. *History of Psychology*: Mr. Wilson.

A seminar for senior majors on the historical background of contemporary psychology. Two hours each week.

Comprehensive Survey: Members of the Department.

Weekly conferences with majors during the second semester of the senior year in preparation for the Final Examination.

FINAL EXAMINATION: The final examination is in three parts:

1. General Psychology.
2. History of Psychology.
3. A specialized examination in one of the following fields:
 Comparative Psychology
 Human Learning and Thinking
 Perception
 Personality, Normal and Abnormal
 Physiological Psychology
 Psychological Testing
 Social Psychology

An Honors paper or (with the approval of the Department) an examination in an allied field may be substituted for Part 3.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for Part 3 of the final examination.

Russian

ASSOCIATE PROFESSORS:	FRANCES DE GRAAFF, PH.D., <i>Chairman</i> GEORGE L. KLINE, PH.D.
ASSISTANT PROFESSOR:	RUTH C. PEARCE, PH.D.
LECTURER:	GALIA S. BODDE
INSTRUCTOR:	LUBA HALAT, M.A.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202, the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 201, 200 and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff, Mrs. Pearce.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Mrs. Pearce.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. *Advanced Training in the Russian Language*: Mrs. Bodde.

201. *Readings in Russian Literature*: Mrs. Bodde, Miss Halat.

Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.* *General Readings in Russian*: Mrs. Bodde.]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

203.* *Russian Literature in Translation*: Miss de Graaff.

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.]

[302. *Pushkin and His Time*: Miss de Graaff.]

303. *Russian Literature of the Twentieth Century*: Mr. Kline.

[304. *Social Trends in Nineteenth-Century Russian Literature*: Miss de Graaff.]

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

HONORS WORK: Honors work is offered to students recommended by the Department.

Sociology and Anthropology

PROFESSOR OF

ANTHROPOLOGY:

FREDERICA DE LAGUNA, PH.D.,
Chairman

ASSOCIATE PROFESSOR

OF SOCIOLOGY:

EUGENE V. SCHNEIDER, PH.D.

LECTURER IN

ANTHROPOLOGY:

LEONARD B. GLICK, M.D.

PROFESSOR OF SOCIAL WORK

AND SOCIAL RESEARCH:

BERNARD ROSS, PH.D.

AT HAVERFORD

PROFESSOR OF SOCIOLOGY:

IRA DE A. REID, PH.D.

ASSOCIATE PROFESSOR

OF SOCIOLOGY:

PAUL HARE, PH.D.

The student may select one of three programs: (1) A major in Anthropology, (2) A major in Sociology, (3) A joint major in Sociology and Anthropology. Each of these programs is described below.

ANTHROPOLOGY

The aim of the major is to introduce the student to an understanding of man and his works, evolution, the origin and development of culture, and the basic cultural patterns and social processes in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 203a and b, 204a, 208a or 209a, 301b, 303a or 304a.

ALLIED SUBJECTS: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society*: Mr. Glick and Miss de Laguna.

Man's place in nature; the development of human culture to the rise of the early civilizations in the Old and New Worlds; the nature of culture and its forms among primitive peoples.

203a. *Primitive Culture*: Miss de Laguna.

Analysis of significant studies of culture in selected areas, illustrating the methods and aims of ethnography. Prerequisite: Anthropology 101.

203b. *Primitive Society*: Mr. Glick.

Social structures of preliterate peoples; their functions and the types of sanctions which control their members. Prerequisite: Anthropology 101 and 203a.

204a. *American Archaeology*: Miss de Laguna.

Introduction to the archaeology of the Indians of Middle and North America. Prerequisite: Anthropology 101 or 209b, or Classical Archaeology 101, or permission of instructor.

206b.* *Peasant Culture and Society*: Mr. Glick.

Comparative studies of culture and society in peasant communities.

[208a. *Human Evolution*.]

Prerequisites: Anthropology 101, Biology 101 or Geology 101.

[209a. *Stone Age Man and the Modern World*.]

Contemporary hunting and gathering peoples in the old and new worlds; their adjustments to their natural environments; their relation to stone age cultures of the past, their contributions to and relations with modern civilized cultures.

[209b. *The American Indian*: Miss de Laguna.]

The Indians of Middle and North America as presented in such literary sources as reports of early explorers, anthropological novels, and native autobiographies, revealing ethos and cultural values.

301b. *Cultural Theory*: Miss de Laguna.

Analyses of the important classical and modern contributions to ethnological theory. Prerequisite: Anthropology 203a.

303a. *Ethnological Problems in Oceania*: Mr. Glick.

Prerequisite: Anthropology 203a.

[304a. *Culture and Personality*: Miss de Laguna.]

The relation of human personality to culture and its variations in different cultural settings. Prerequisite: Anthropology 101 and 203a.

FINAL EXAMINATION: The final examination for students majoring in Anthropology is in three parts:

1. General Anthropology.
2. History and Theory.
3. A special field or project in Anthropology, or an allied field.

HONORS WORK: Honors work is offered to students of marked ability, and will consist of independent reading, reports and conferences, and the preparation of a written report.

SOCIOLOGY

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

REQUIREMENTS FOR THE MAJOR SUBJECT: 102a and b, 21a (Haverford), 201b or 206b, 302a, and one further unit of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. In addition, the student is required to take one of the following courses: Anthropology 101, Economics 101, or Psychology 101.

ALLIED SUBJECTS: Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics.

102a. *Introduction to Sociology:* Mr. Schneider.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Attention will be paid to various forms of social organization; groups, crowds, publics, institutions, organizations. Examples will be drawn from several non-industrial societies.

102b. *American Social Structure*: Mr. Schneider.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

202a.* *History and Philosophy of Social Welfare*: Mr. Ross.

American social welfare programs, their heritage and future trends; social work as an institution and profession.

207b. *Race Relations and Minority Groups*: Mr. Schneider.

The position and problems of several minority groups in American and other societies, relations between minority and majority groups, prejudice and discrimination.

302a. *Social Theory*: Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers.

SOCIOLOGY AT HAVERFORD

21a. *Social Research*: Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical and other research procedures. Individual projects.

33a. *Population Policies and Problems*: Mr. Reid.

A study of the restrictive, expansive and eugenic aspects of national population policies as they are related in demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration and food supply.

35a. *The Sociology of Small Groups*: Mr. Hare.

Theoretical and experimental analyses of the structure and interactions systems of small social groups. Special attention is given to the methodologies of sociometry and field theory and their relevance for economic, political and social situation analysis.

37a. *The Family*: Mr. Reid.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects.

FINAL EXAMINATION: The final examination for students majoring in Sociology is in three parts:

1. Sociology.
2. A special field in Sociology.
3. An allied field.

HONORS WORK: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.

JOINT MAJOR IN SOCIOLOGY AND ANTHROPOLOGY: The aim of the major is to provide the student with a general understanding of human society and human culture as these have developed in different parts of the world from prehistoric to modern times. Man's racial and cultural history is traced, and analyses are made of cultural and social institutions of primitive and complex societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 102a and b, 21a (HAVERFORD), or another half unit of second-year Sociology, 203a, 301b, and 302a.

FINAL EXAMINATION: The final examination for students taking the joint major is in three parts.

1. General Anthropology.
2. Sociology.
3. A second field in either Anthropology or Sociology; or an allied field.

HONORS WORK: Honors work in the joint major is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

Spanish

ASSISTANT PROFESSOR:	WILLARD FAHRENKAMP KING, PH.D., <i>Chairman</i>
VISITING LECTURER:	CARLOS BLANCO AGUINAGA, PH.D.
LECTURER:	PHYLLIS TURNBULL, <i>D. en F.L.</i>
INSTRUCTOR:	MIGUEL GONZÁLEZ-GERTH, M.A.

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR OF PHILOSOPHY: JOSÉ MARÍA FERRATER MORA, *Lic.F.L.*¹

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 102 and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish*: Mr. González-Gerth, Miss Turnbull.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mr. González-Gerth.

Intensive grammar review and exercises in composition and conversation.

1. On sabbatical leave for the year, 1963-1964.

- [101. *Masterpieces of Spanish Literature (from 1700 to 1936)*: Mrs. King.]

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

102. *Masterpieces of Spanish Literature (from the Poema del Cid to 1700)*: Mrs. King.

A survey of Mediaeval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition*: Miss Turnbull.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

- 203a. *Spanish American Literature — The literary revolution*: Mr. González-Gerth.

Poetry and prose from the *Modernista* movement to the present.

- 203b. *Spanish American Literature — The political and social revolution*: Mr. González-Gerth.

The development of the national ideal in the prose writers from Sarmiento to the present.

- [302a. *Mediaeval Spanish Literature*: Miss Turnbull.]

- 303a. *The Modern Novel in Spain*: Mrs. King.

The development of the Spanish narrative from the Generation of 1898 to the present.

- 303b. *Modern Spanish Poetry*: Mrs. King.

Spanish poetry from *Modernismo* to the present.

- [304a. *Drama of the Golden Age*: Mrs. King.]

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

[304b. *The Age of Cervantes*: Mrs. King.]

The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote*.

[305. *Prose Fiction of the Renaissance*.]

From *La Celestina* to *Don Quixote*.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Courses

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

102. *Introductory Chemistry and Physics*: Miss Hoyt, Mr. Zimmerman.

This course is intended to give an introduction in depth to our present knowledge of the physical world, and of its quantized, atomic and molecular structure, as well as of the processes by which this knowledge has been obtained. It will cover essentially all of the subject matter included in Chemistry 101 and Physics 101, and will serve as preparation for Chemistry 201a, Chemistry 202, and Physics 201a. One and one-half units.

203. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

The development of scientific ideas is traced against the historical background of other intellectual activities, social

changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics or Science.

207a. *The Soviet System*: Mr. Hunter, Haverford College.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or Political Science 201a and 202b or any unit of second-year work in Political Science; or History 101. (This course is also listed as Political Science 207a.)

[306b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.]

A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 306b.)

308. *Introduction to Linguistics*: Mr. Shetter.

Introduction to the scientific study of language. The historical approach and especially methods of linguistic analysis as developed in American structural linguistics. The course is relevant to any discipline where the study of language is important.

Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	ETHEL M. GRANT
	GLORIA SCHMIDT, M.A.
	JANET YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance and aquatic activities. Class instruction during the first two years enables the student to learn new skills or to improve her techniques. Interclass, interhall and varsity schedules of games and tournaments offer all students the experience of competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association and in promoting the activities of the Dance Club, Synchronized Swimming Club and Outing Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year. Part of the Fall and Winter terms will be given over to the study of Rhythms as related to good movement along with the fundamentals of Modern Dance and to the basic principles of good movement with an application to sports activities. The sophomore requirement consists of two periods a week throughout the year. All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student who is not excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings from which election may be made are:

FALL: archery, fencing, fundamental skills, golf, hockey, modern dance, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. WINTER: badminton, basketball, diving, fencing, folk dance, golf, modern dance, skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. SPRING: archery, golf, lacrosse, riding,* swimming, tennis and volleyball.

SWIMMING TEST: one standing dive, back float two minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

*Open only to Sophomores, with permission of the Department.

Financial Aid

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have recently been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty to thirty-three per cent of undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1000. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. All applicants must submit in support of application for financial aid the form entitled *Parents' Confidential Statement* which is prepared by the College Scholarship Service of the College Entrance Examination Board. When the total amount of aid needed has been determined, awards are made in the form of loans and scholarships. Beginning with the class of 1966, all students who are granted a scholarship in the award of the College or the alumnae clubs will be required to borrow the first \$200 of their total financial aid

from the Gerard and Mary Hill Swope Loan Fund (see page 137). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 136.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR FINANCIAL AID AVAILABLE AT ENTRANCE

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service *no later than January 1* of the student's final year in high school in the case of regular applicants, and no later than October 1 in the case of applicants under the Early Decision Plan.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult their school counselors about national and local scholarships which may be available.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by February 20. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.

Scholarship Funds

Alumnae Regional Scholarships are available to students in all parts of the United States. These scholarships, raised by alumnae, vary in amount but may cover full tuition for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of \$10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. The income from the fund of \$25,000 is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to \$50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated *cum laude* in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$15,555. (1947)

The Bryn Mawr School Scholarship, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

NOTE: The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.

The Mariam Coffin Canaday Scholarship Fund was established by a gift of \$18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this Fund is to be capitalized until the Fund reaches the amount of \$25,000. Scholarships are then to be awarded from the income, with preference given to students from metropolitan Toledo, Ohio. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of \$30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962 a generous addition of \$6,011 was made to the Jeannette Peabody Cannon Memorial Scholarship Fund by Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by a gift totalling \$3,200 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Class of 1920 Memorial Scholarship Fund was founded in memory of classmates by the Class of 1920 from reunion gifts totalling \$2,145. The income from the fund is to be awarded annually. (1955)

The Julia Cope Collins Scholarship was established by bequest of \$10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of \$31,650 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951, who died only a few years after her graduation from Bryn Mawr. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$10,000 was founded in honor of his wife by bequest

of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Charles E. Ellis Scholarship, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia public schools. (1909)

The Anne Long Flanagan Scholarship was established by a gift of \$29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income on this fund is to be used to provide scholarships for Protestant students. (1961)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of \$35,985 from the Estate of Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest." In addition, the Corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student's tuition. The award, tenable for four years, may be as high as \$2,000 a year, depending upon demonstrated need. The award is made "on the basis of secondary school records and reports, as well as extra-curricular activities and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a

fund of \$2,585 is awarded annually to the junior in need of aid who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1963-64, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and in the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship, given in memory of Katharine Houghton Hepburn of the Class of 1900, is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. This scholarship, awarded to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were founded by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. The income from this fund is used for aid to a sophomore. (1901)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,000 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

Huguenot Society of America Grant. On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to \$1,000 to be used for college expenses. (1962)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Priscilla Hunt Scholarship was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-1956 and again in 1959-1960 in the amount of \$1,000 and tenable for four years, will be awarded to a candidate from certain counties in the state of Indiana. (1955)

The Lillia Babbitt Hyde Scholarship Fund was established by a gift of \$10,000 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for students whose major subject will lead to a medical education or a scientific education in chemistry, as far as possible. (1963)

The Jane Lilley Ireson Scholarship was established by a bequest of \$227,657 under the will of Jennie E. Ireson, her daughter. The income on each \$5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Alice Day Jackson Scholarship Fund of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Alumnae Association of the Philadelphia High School for Girls. The most recent award was in 1959-1960. (1916)

The Misses Kirk Scholarship Fund, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$10,000 is awarded to an entering student from New England selected by the President on the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to \$5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S.

Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to \$11,500, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund was established by the Class of 1944. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The Mary Frances Nunns Scholarship was established by a bequest of \$25,367 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of \$30,000 from the Class of 1922. (1963)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund now totalling \$6,666, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, Mrs. J. Campbell Harris. The income on this fund is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at \$9,217 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers) by Nancy Hough Smith. (1919, 1958-1963)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a

student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of \$50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

The Lidie C. B. Saul Scholarship, tenable for four years, is given by the Alumnae Association of the Girls' High School and Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$22,769 is awarded to a member of the junior class who shows great distinction of

scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

Seven College Conference Scholarships are awarded annually by the Seven Colleges (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence tenable for four years is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and Idaho), the *central states* (Kansas, Missouri, Nebraska and Colorado), and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F. Baker Trust*. (1950) The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of \$15,000 from the Estate of Helen C. Sowden.

The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$6,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth P. Taylor Scholarship Fund was established by a bequest of \$10,000 from Elizabeth P. Taylor of the Class of 1921. (1961)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from *The Jacob Fussell Byrnes and Mary Byrnes*

Fund, which was established in memory of her mother and father by a bequest of \$51,513 under the will of Esther Fussell Byrnes. (1948)

The Julia Ward Scholarship Fund was established by a gift of \$7,075 for a scholarship in memory of Julia Ward of the Class of 1923 by one of her friends. The income is to be used for undergraduate scholarships. (1962)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Mrs. James D. Winsor Memorial Scholarship was established by a bequest of \$10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be used for a Negro student with the right of residence in the College. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of \$3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Rebecca Winsor Evans. The scholarship is reserved for a Negro student with the right of residence in the halls of the College. (1962)

The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Ellen Winsor. This scholarship is reserved for a Negro student with the right of residence in the halls of the College. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

SCHOLARSHIPS FOR FOREIGN STUDENTS

The Chinese Scholarship comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is

awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 132). (1915)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift of \$1,500 from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore

or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this fund has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of \$100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, given by the Academy of American Poets, was first made in 1957 and renewed for five years in 1961.

The Bain-Swiggett Poetry Prize was established by a gift of \$1,000 from Mrs. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,125 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. Awarded in 1959. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-1910. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anony-

mous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College from 1918-1948. The income only from this gift is to be used. (1961)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904. From the income on the bequest of \$500 a prize is to be awarded from time to time to a student in Geology. (1963)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1959. (1938)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recom-

mentation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.

Loan Funds

Bryn Mawr College, through the generosity of alumnae and friends of the College, offers loans through three funds. In general \$500 is the maximum which may be borrowed in one year.

All requests for loans from any fund must be accompanied by the Parents' Confidential Statement of the College Scholarship Service.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires; after the student leaves college, the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be followed in awarding such loans: a. to students coming from New Jersey, b. to students coming from Missouri, c. to students coming from any other location who have had not less than one year residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

1. The \$200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

2. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

3. The maximum amount which can be borrowed for any given academic year is \$500.

4. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. After leaving Bryn Mawr College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

5. Loans are awarded by a committee consisting of the Dean of the College (*Chairman*), the Dean of the Graduate School and the Director of Admissions.

Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Pa.

Officers of the Alumnae Association

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Academic Schedule

1963-1964

1963

FIRST SEMESTER

- September* 19. Graduate Center opens to resident students
Deferred, condition, auditors' examinations begin
- September* 20. Halls of residence open to entering class at 8 A.M.
Registration of entering undergraduate students
- September* 21. Deferred, condition, auditors' examinations end
- September* 22. Halls of residence open to returning undergraduates at 8 P.M.
- September* 23. Enrollment of returning undergraduate students
- September* 24. Work of the 79th academic year begins at 9 A.M.
- September* 26. Registration period for graduate students ends
Hygiene exemption examination for Freshmen
- October* 12. German examinations for undergraduates
- October* 19. Greek, Latin and Russian examinations for undergraduates
French examinations for M.A. and Ph.D. candidates
- October* 26. French examinations for undergraduates
German examinations for M.A. and Ph.D. candidates
- November* 2. Italian and Spanish examinations for undergraduates, M.A. and Ph.D. candidates
Russian examinations for M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates
- November* 6. Hygiene examination
- November* 27. Thanksgiving holiday begins after last class
- December* 2. Thanksgiving holiday ends at 9 A.M.
- December* 18. Christmas vacation begins at 12:45 P.M.

1964

- January* 6. Christmas vacation ends at 9 A.M.
- January* 11. German examinations for Seniors conditioned
Italian, Russian and Spanish examinations for M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates

- January 17.* Last day of lectures
January 18. Greek, Latin and Russian examinations for Seniors conditioned
German examinations for M.A. and Ph.D. candidates
January 20. College examinations begin
January 25. French examinations for Seniors conditioned, M.A. and Ph.D. candidates
Italian and Spanish examinations for Seniors conditioned
January 30. College examinations end

SECOND SEMESTER

- February 3.* Work of the second semester begins at 9 A.M.
March 27. Spring vacation begins after last class
April 6. Spring vacation ends at 9 A.M.
Deferred examinations begin
April 10. Deferred examinations end
April 11. German examinations for undergraduates
Italian, Russian and Spanish examinations for Ph.D. candidates, and M.A. candidates for 1965
Statistics examinations for M.A. candidates for 1965
April 18. Greek, Latin and Russian examinations for undergraduates
German examinations for Ph.D. candidates, and M.A. candidates for 1965
April 24-26. Geology field trip
May 2. French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1965
May 9. Italian and Spanish examinations for undergraduates
May 15. Last day of lectures
May 18. College examinations begin
May 29. College examinations end
June 1. Conferring of degrees and close of the 79th year
June 6. Alumnae Day

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Directions to Bryn Mawr

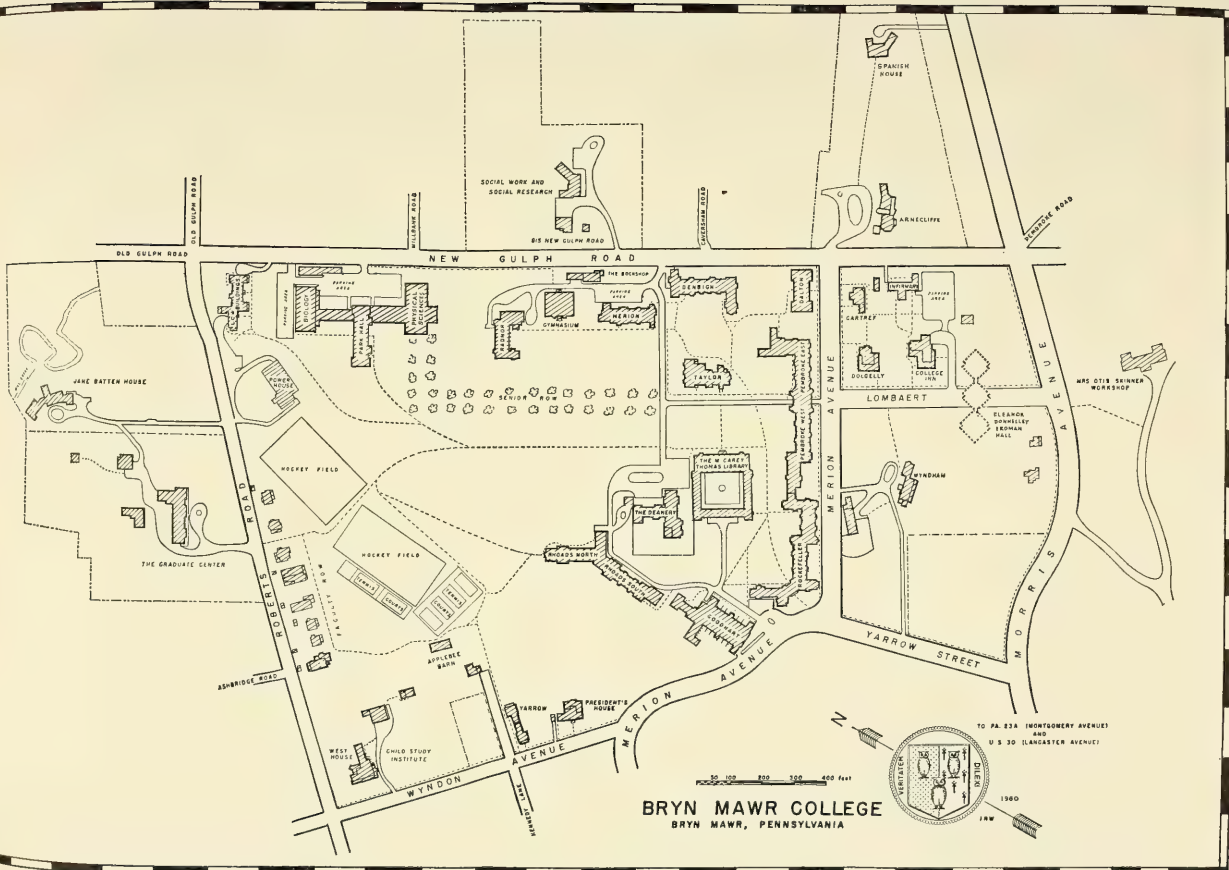
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U.S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.



BRYN MAWR

UNDERGRADUATE COURSES

THE GRADUATE
DEPARTMENT OF
SOCIAL WORK AND
SOCIAL RESEARCH
BRYN MAWR COLLEGE





Bulletin of the
Carola Woerishoffer
Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College
1964-1965

815 New Gulph Road
BRYN MAWR, PENNSYLVANIA

Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, 815 New Gulph Road, Bryn Mawr College, Bryn Mawr, Pennsylvania.

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The Carola Woerishoffer Graduate Department of Social Work and Social Research offers professional education for practice in social work and for research. The basic two-year program leads to the degree of Master of Social Service, the advanced program to the degree of Doctor of Philosophy. In general, the program of the Department is intended for full-time study, but a few courses are open on a part-time basis to holders of a Master's degree in social work or its equivalent.

The curriculum of the Department is based upon the premise that preparation for social work requires a basic core of knowledge as well as skill in the application of this knowledge. A coordinated program of concurrent courses and field instruction is therefore provided in the Master's degree program. The Ph.D. program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular.

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Officers of the College

President of the College:

KATHARINE ELIZABETH MCBRIDE, PH.D., LL.D., L.H.D., Sc.D.

Office: Taylor Hall.

Dean of the Graduate School: ELEANOR A. BLISS, Sc.D.

Office: The Library.

Director, Graduate Department of Social Work and Social Research:

KATHERINE D. K. LOWER, PH.D.

Office: 815 New Gulph Road.

College Physician: PEARL S. PITT, M.D.

Office: The Infirmary.

Director of Halls and Head Warden:

CHARLOTTE BRANDON HOWE, M.A.

Office: Rockefeller Hall.

Librarian: JANET MARGARET AGNEW, B.L.S., M.A.

Office: The Library.

Faculty and Teaching Staff

CAROLA WOERISHOFFER GRADUATE DEPARTMENT of SOCIAL WORK AND SOCIAL RESEARCH

KATHERINE D. K. LOWER, PH.D., *Professor of Social Work and Social Research and Director of the Department*

BERNARD ROSS, M.S.S.A., PH.D., *Professor of Social Work and Social Research*

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MARTIN REIN, M.S.S.W., PH.D., *Associate Professor of Social Work and Social Research*

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ELIZABETH L. PINNER, M.S.S., *Instructor in Social Work*

LILLER P. GREEN, M.S.S., *Field Instruction Consultant*

DOROTHEA M. LANE, A.M., *Field Instruction Consultant*

ERMA C. METZ, M.S.S., *Field Instruction Consultant*

HELEN G. NIEMEYER, M.S.W., *Field Instruction Consultant*

MARY SUSAN BRUBAKER, M.S.W., *Teaching Assistant*

RACHEL D. COX, PH.D., *Professor of Education and Psychology*

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WILLIAM AUGUST WILSON, JR., M.D., PH.D., *Associate Professor of Psychology*

O. EUGENE BAUM, M.D., *Special Lecturer in Psychiatric Information*

ROBERT J. GAUKLER, M.D., *Special Lecturer in Psychiatric Information*

PHILIP KLEIN, PH.D., *Special Lecturer in History and Philosophy of Social Welfare*

WALTER C. KLINGENSMITH, M.D., *Special Lecturer in Medical Information*

RALPH ORMSBY, M.S.S.A., *Special Lecturer in Social Administration*

History of the Department

The Department was opened in the fall of 1915 in memory of Carola Woerishoffer, a graduate of Bryn Mawr College, who had devoted her brief life to improving social and working conditions and who, by her bequest to the College, made possible the introduction of new teaching and research in social welfare. The Department was first called the Carola Woerishoffer Graduate Department of Social Economy and Social Research. In 1957 the name was changed to the Carola Woerishoffer Graduate Department of Social Work and Social Research.

Under the first Director, Dr. Susan M. Kingsbury, four fields of study were initially offered — Social Casework, Community Organization, Industrial Relations, and Social and Industrial Investigation. As the curriculum became more specifically focussed on education for social work, certain fields of study, including Labor Economics, Sociology and Anthropology, were transferred to other departments of the College.

The program leading to the Ph.D. degree was developed with the founding of the Department in 1915. In response to the growing recognition of social work as a profession, the degree of Master of Social Service was substituted in 1947 for the Professional Certificate which had been granted up to this time to two-year students.

Men have been admitted to the Graduate Department of Social Work and School Research since 1939, shortly after the Graduate School was opened to men.

The Department, a charter member of the American Association of Schools of Social Work, is a constituent member of the Council on Social Work Education and an accredited graduate school of social work. In 1944 the Department was approved to offer a concentration in medical social work and, in 1954, in psychiatric social work. Since 1958 the Department has offered a concentration in community organization.

In 1958 a grant from the Dolfinger-McMahon Foundation established a research center for the purpose of bringing the techniques of the research scientist to the study of basic problems in social work.

In the same year, the Department moved into its present headquarters at 815 New Gulph Road, the property opposite Merion Gate. The building includes a lecture hall, seminar and conference rooms, offices, a library and the research center.

Admission

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record.¹ Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department.

A personal interview is arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. The Department may, at its discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment or admission fee of \$20 is to be paid to the Comptroller of Bryn Mawr College. If the student withdraws before June 15th, half the fee, namely \$10, will be refunded.

¹ Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.

TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester's work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. Students considering enrollment at the University should note that the academic year begins earlier than at Bryn Mawr. The University charges a small general fee for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Students who plan to take a course at the University should complete their Bryn Mawr registration and obtain their letters of introduction promptly.

Programs and Degrees

BRYN MAWR COLLEGE awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework, Community Organization and Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. In Community Organization preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, and Community Welfare Research. At the discretion of the faculty, a few second-year students will be allowed to concentrate in Social Work Research.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework, or community organization as the principal course in social work practice. The first-year courses are:

Social Welfare Policy and Services I and II
Human Growth and Behavior I and II
Community Organization I
Social Research
Social Casework I
Social Casework II or Community Organization II
Introduction to Statistical Concepts (non-credit)
Field Instruction

The courses in the second year are in part determined by the principal area of practice of the student:

Social and Cultural Concepts in Social Work Practice
Social Agency Administration
Social Issues and Social Policy
Psychoanalytic Concepts in Social Work Practice
Social Group Work
Community Organization III and IV
Social Casework III and IV
Field Instruction
Thesis Seminar

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The candidate for the Doctor of Philosophy degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program provides a basic preparation with which a person can enter one or several roles according to the changing needs and opportunities of social welfare and the changing interests and capabilities of the person. The curriculum includes the following areas of study:

- Social Welfare
- Theory in Social Work Practice
- Social and Behavioral Sciences
- Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives that are considered pertinent to individual interests, some of which may be taken in other departments within the College or at the University of Pennsylvania; and special experiences that are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. The Research Center of the Department provides special opportunities for social work research. Qualified students may participate in various phases of research in social work under the direction of members of the faculty engaged in the program of the Center.

General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department and to the Graduate Committee.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of their instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School within two weeks after entering the College. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for *one* semester. Description of other courses may be found in the Calendar of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I: Mr. Rein.

Consideration is given to the organization and growth of social welfare as a major social institution. From an historical and philosophical perspective, the influence of recent economic, social, and demographic trends upon social policy and the present organization of social welfare services are analyzed.

Social Welfare Policy and Services II: Mr. Rein.

The nature and scope of contemporary problems such as poverty, delinquency, and urban deterioration are analyzed. Competing and alternative theories concerning etiology and modes of intervention are specified, and present services are evaluated from this perspective.

Social Issues and Social Policy: Mrs. Lower and Visiting Lecturers.

Materials from selected fields are presented by prominent specialists, with attention to their implications for social policy. Among the fields considered are law, economics, public health, urban renewal and housing.

Human Growth and Behavior

Human Growth and Behavior I: Mrs. Burland and Special Lecturers.

The development of the individual is presented through examination of the physical, social and psychological circumstances that affect the individual's potential for social functioning. The content emphasizes the opportunities and hazards of each phase of development and the adaptive patterns by which the potential for social functioning is realized or impeded. The course material is presented by a physician, a psychiatrist, a psychologist and a social worker.

Human Growth and Behavior II: Mrs. Burland and Special Lecturers.

This course is a continuation of Human Growth and Behavior I, and deals with the range of differences in social functioning. There is examination of physical and mental illness and their connection with impaired social functioning. Emphasis is given to the interrelated effects of illness on the individual, his family and the community, and to implications for treatment and prevention.

Psychoanalytic Concepts in Social Work Practice: Mr. Lichtenberg.

This course is designed to increase knowledge and understanding of the dynamics of behavior. Stress is placed upon concepts and orientations from psychoanalytic ego psychology that have special pertinence to social work practice.

Social and Cultural Concepts in Social Work Practice: Mr. Vosburgh.

This course attempts to increase the student's understanding of the social foundations of individual and group behavior. Emphasis is upon those concepts and facts from social psychology, sociology and cultural anthropology that are especially useful in the practice of social work.

Social Work Practice

Social Casework I: Miss Haring, Mrs. Pollock.

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II: Miss Haring, Mrs. Pollock.

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.

Social Casework III: Mrs. Stallfort, Mrs. Burland.

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on

differential approaches to treatment as determined by differential social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields.

Social Casework IV: Mrs. Stallfort, Mrs. Burland.

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker. Current issues and trends in social casework are considered.

Community Organization I: Mr. Goldstein.

An introduction to community organization as a field of practice and as a social work method and process. This course undertakes to develop a theory of community derived from analysis of various concepts of community and to explore principles and roles of professional practice.

Community Organization II: Mr. Goldstein.

Elaboration of community organization as a method of social work. Consideration of theory related to such concepts as community forces, social change, decision-making, power structures and critical analysis of variables in functions and roles associated with professional practice in selected settings.

Community Organization III: Mr. Ross.

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered.

Community Organization IV: Mr. Ross.

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings. Community development is considered in relation to community organization.

Social Group Work: Mr. Goldstein.

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies: Mr. Ormsby.

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include the role of the board, policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations. Participants prepare administrative case studies.

Field Instruction I.

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester. Minimum requirement 450 hours.

Field Instruction II:

Taken collaterally with Casework III and IV, Community Organization III and IV, or Advanced Social Research. Requirement: three days per week, first and second semesters; 600 hours.

Social Research

Introduction to Statistical Concepts: Mrs. Kronick.

An introduction to the vocabulary and general concepts of statistics. This is a non-credit course and meets one hour per week.

Social Research: Mr. Vosburgh.

An introduction to social research. Within the framework of the principles of scientific method, this course emphasizes the logic of research procedures and the design of proof. The course aims to provide basic skills in formulation of problems and critical analysis of existing research. Concentration upon bodies of method relevant to social work problems.

Thesis Seminar (two semesters) : Mr. Vosburgh and Faculty.

A Master's thesis is required of all candidates for the M.S.S. degree. The thesis may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a thesis seminar which meets as needed. No course credit is given for the thesis.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

I SOCIAL WELFARE

History and Philosophy of Social Welfare: Mr. Ross, Mr. Lichtenberg,
Mr. Rein, Mr. Klein.

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs.

Community Welfare Planning: Mr. Rein.

This seminar deals with planned change in social welfare, drawing on the disciplines of economics, political science, and sociology, as well as social work. Among the topics considered are: organization in social welfare, the goals and the relationships between these and the needs of individuals; the structures through which such organizations operate and the societal forces which affect their operation.

Community Mental Health: Mr. Lichtenberg.

Directions in community mental health services and programs are explored, with special study in the varieties of mental health services, roles, and practices under active development and research in the epidemiology of mental disorder.

II SOCIAL WORK PRACTICE

Advanced Casework Theory: Miss Haring.

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on relation of pertinent research findings to current operating assumptions, gaps in knowledge and the present stage of theory building in social work.

Prerequisite: *Personality Theories and Social Work Practice.*

Theory in Community Organization: Mr. Ross.

A seminar to study current development of theory underpinning the professional practice of community organization for social welfare. Structure and process are considered; distinctions among philosophy, principles and theory are made. Applications to issues and trends in practice related to housing, urban renewal, community welfare planning, intergroup relations and mental health.

Supervision in Social Work: Miss Haring.

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

The seminar is designed for those with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

Social Administration: Mr. Goldstein.

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions on the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

III SOCIAL AND BEHAVIORAL SCIENCES

Personality Theories and Social Work Practice: Mr. Lichtenberg.

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory: Mr. Lichtenberg.

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Science Concepts and Social Work Practice: Mr. Goldstein.

Selected theoretical approaches from sociology, social psychology, and anthropology are examined for their relevance and implications for social work practice. Students develop a particular conceptual frame-work from the social sciences and demonstrate its significance and application to social work practice.

Social Change: Mrs. Kronick.

An examination of major sociological theories of social change with specific attention to change in urban areas and resultant urban problems. Local problems are examined in terms of social change at the social level.

Concepts of Mental Health: Mr. Lichtenberg

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each theory are traced.

Formal Organizations: Mr. Vosburgh.

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

IV SOCIAL RESEARCH

Advanced Statistics (two semesters): Mrs. Kronick, Mr. Wilson.

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Methodology in Social Research: Mr. Mech, Mr. Vosburgh.

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. In-

tensive coverage of survey research design. Case study and clinical method, and design of social experiments.

Current Research in Social Work: Mrs. Lower, Mr. Mech.

Critical evaluation of selected research investigations in social work with respect to problem formulation, identification of variables, design and quantitative analysis, and relevance to theory development.

Demographic Analysis: Mrs. Kronick.

Demographic characteristics of the United States and their analysis are studied with principle attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research: Members of the Department.

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Courses in Related Departments in the Graduate School

Courses in related departments of the Graduate School may be elected as part of the student's program with the permission of the Department. Such courses should be integrated with the student's overall program and interests. Examples of such courses are:

Economics

- Comparative Economic Systems
- The Development of Underdeveloped Areas
- Government and Business
- Business Cycles and Full Employment

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Elementary School Counseling
- Developmental Psychology
- Research and Measurement in Education
and Child Development
- Adolescent Development

Political Science

- Problems of Public Administration
- The World Community and Law

Psychology

- Human Learning and Thinking
- Comparative Psychology
- Personality
- Measurement
- Perception
- Social Psychology
- Statistical Methods

Sociology

- Sociological Theory
- Social Institutions
- Industrial Sociology

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Field Instruction

FIELD INSTRUCTION is an integral part of certain courses. For each student in these courses, field instruction is arranged in an established social agency of good standards. The purpose of the field instruction is to supplement the class work, giving the student the opportunity to apply the knowledge gained in class and thus to deepen the knowledge and develop skill in its use. It is planned by the agency in such a way as to give content, sequence and progression in learning. The class sessions and the field instruction run concurrently in order to insure an integration of the content of the two. Except in unusual circumstances, the student is placed in a different agency during each year of field instruction.

The time allotted for field instruction is a minimum of 450 hours per year for first-year courses and 600 hours per year for second-year courses. In a typical program, this consists of field practice for first-year students of approximately 14 hours per week, from October through January, and 21 hours per week, from February through May; and for the second-year students, 21 hours per week for each of the two semesters. Individual arrangements may be worked out on the basis of agency and student needs.

The following agencies are in use as field instruction centers:

Allentown State Hospital, Social Service Department
Association for Jewish Children
Child Care Service of Delaware County
Child Guidance Center of Mercer County
Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Commission on Human Relations
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Episcopal Community Services
Family Service of Delaware County
Family Service of the Main Line Neighborhood

Family Service of Philadelphia, North District
 Family Service of Philadelphia, Northeast District
 Family Service of Philadelphia, South District
 Friends Committee on Race Relations
 Friends Neighborhood Guild
 Germantown Settlement
 Health and Welfare Council of Camden County and United Fund of
 Camden
 Health and Welfare Council, Inc., Delaware County District
 Health and Welfare Council, Inc., Philadelphia
 Health and Welfare Council, Inc., Research Department
 Hospital of the University of Pennsylvania, Department of Social
 Service
 Jefferson Medical College, Social Service Department
 Jewish Federation of Greater Philadelphia
 Lankenau Hospital, Child Guidance Clinic
 The Lighthouse
 Lutheran Social Mission Society
 Montgomery County Board of Assistance
 Montgomery County Mental Health Clinics, Inc.
 Neighborhood Centre
 Norristown State Hospital, Social Service Department
 Philadelphia County Board of Assistance
 Philadelphia Department of Public Welfare
 Philadelphia General Hospital, Adult Psychiatric Clinic
 Philadelphia General Hospital, Children's and Adolescent's Clinic
 Philadelphia State Hospital, Social Service Department
 Redevelopment Authority of Philadelphia
 Southeastern Pennsylvania Chapter, American Red Cross
 Southern Home for Children
 St. Christopher's Hospital, Child Psychiatry Clinic
 St. Martha's Settlement
 Temple University, Center for Community Studies
 Temple University Hospital
 United Fund of the Philadelphia Area
 University Settlements
 Veterans Administration Hospital, Social Service Department,
 Coatesville, Pennsylvania
 Y.W.C.A. of Philadelphia

The Research Center

THE RESEARCH CENTER of the Department of Social Work and Social Research was established in 1958 with the aid of a grant from the Dolfinger-McMahon Foundation of Philadelphia. The Center concentrates its work on the areas of new knowledge important as a result of the expanding scope and complexity of problems in social welfare.

The Center aims to foster contributions to the foundation knowledge of social work through the processes of research, training for research, and consultation. The staff and resources of the Center are devoted at any one time to a number of projects on different aspects of social welfare. Projects have been undertaken in such areas as adoption, the rehabilitation of stroke patients, dependency, demographic factors and social welfare services, and social work education.

The Center also provides an opportunity for student training at the advanced level through supervised units in research with faculty members engaged in Research Center projects. Funds are available from time to time for research assistantships for qualified advanced students.

Represented on the staff is a variety of interest and training in the social sciences and social welfare, thus bringing the research techniques and perspectives of related disciplines to bear upon social welfare problems.

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$1300 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is \$165 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field instruction are charged a fee of \$10 a semester for each such course taken during the academic year. This fee covers a part of the expenses of field supervision. In addition, students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

The graduation fee for Doctors of Philosophy and Masters of Social Service is \$20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Tuition Fee	\$1300
Residence Fee at Graduate Center (including health service)	1000
Dispensary Fee (for non-resident students)	15
Fee for Field Instruction Manual, Thesis Manual and other materials	5
Field Instruction Fee	20
Graduation Fee	20
Expenses, Christmas and spring vacations, commuting to field instruction, books	variable

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, dismissal or for any other reason.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

The Graduate Center

RESIDENCE for forty-five women graduate students is provided in the Graduate Center, which lies at the north end of the campus about an eight-minute walk from the Library¹. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five students, the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms — a large living room and the Manning-Smith recreation room — are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September 1st prevents some other student from ob-

¹ Residence in the Graduate Center is sometimes not convenient for students in field instruction because of regulations concerning meals and vacation periods. Students are advised to consider these factors in choosing living accommodations.

taining accommodation. Therefore, unless a student sends notice of withdrawal in writing to the Dean of the Graduate School before September 1st, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission or reduction is made if the College is able to re-assign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In cases of absence from the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only — from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who are required to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

Student and Alumni Organizations

THE GRADUATE CLUB

All Resident Students in the Graduate School are members of the Graduate Club and non-residents may become members. The organization of the life of the graduate student in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the college as a whole. The Council of the Graduate Club considers policies relating particularly to the Graduate School.

STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

All Students in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work together closely to promote the objectives of the Department.

ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the development of the Department and its alumni. Activities of the Association include, a spring breakfast for students to be awarded the M.S.S. or the Ph.D. In addition, the Association makes available the Alumni Tuition Scholarship, to which applicants for admission from the Philadelphia area are eligible.

Officers for 1963-64 are:

JOHN F. LARBERG, *President*

MRS. NAOMI TUMARKIN, *First Vice President*

MRS. VALERIE BERNSTEIN, *Second Vice President*

MISS JEAN H. SPARKMAN, *Recording Secretary*

SISTER GUNNEL STERNER, *Corresponding Secretary*

ANTHONY SANTORE, *Treasurer*

Fellowships and Scholarships

A VARIETY OF FINANCIAL RESOURCES is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to June 1st preceding the academic year for which they are desired.

Application for fellowships and scholarships in the award of Bryn Mawr College should be made to the Director of the Department of Social Work and Social Research and must be filed *not later than February 1st* preceding the academic year for which they are desired. Awards are announced each year on April 1st. Original papers and documents, sent by applicants in support of their applications, can be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express. Letters from professors and instructors and other individuals are filed for reference.

All Fellows and Scholars must devote full time to graduate work, and pay tuition of \$1300 plus a field instruction fee of \$20. Scholars in their first year at Bryn Mawr must live at the Graduate Center. Others may elect to do so.

I. GENERAL FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value \$2800, and one or two scholarships, value \$2100. The fellowship is open to women who have completed a full year of graduate work. Scholarships are open to women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

The College has several scholarships of \$2100 which are open to men or women for study in any department.

Tuition scholarships, \$1300, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

II. MASTER'S DEGREE PROGRAM

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to \$2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation.

Agency awards are based upon financial need and professional promise for social work. The Department will aid the student in identifying assistance suited to his qualifications and needs.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania.

FEDERAL TRAINEESHIPS

The United States Public Health Service makes available to the Department traineeships for men or women with career goals in psychiatric social work. These traineeships are \$1800 plus tuition for first-year students and \$2000 plus tuition for second-year students.

The Vocational Rehabilitation Administration offers traineeships plus tuition of \$1800 for first-year and \$2000 for second-year students. These grants are open to both men and women whose career objectives are in the field of rehabilitation.

A number of United States Public Health Service and Vocational Rehabilitation traineeships are available to the Department and are allocated after acceptance for admission.

III. ADVANCED PROGRAM

Advanced traineeships of the United States Public Health Service are available for the doctoral program. These vary in amount from \$2400 to \$3600 plus tuition, depending upon the experience of the candidate and the year of training for which they are granted. These traineeships are awarded to applicants with the goal of the Ph.D. Degree and only for full-time study.

COMMUNITY WELFARE RESEARCH PROGRAM

A special training program for research in Community Welfare has been established in association with the Health and Welfare Council Inc. of Philadelphia. A limited number of stipends are available with the assistance of the Lilly Endowment, Inc. The amount of the stipend is determined by the student's qualifications and needs.

The goal of the program is to train selected and qualified students to fill research positions in planning councils and agencies. The program of study includes academic work and field instruction in the Research Department of the Health and Welfare Council, Inc. of Philadelphia. This program may be developed as part of a plan for work toward the Master's degree or as a part of an advanced program.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

TEACHING ASSISTANTSHIP

A Teaching Assistantship provides a stipend of \$2200 plus one-half tuition. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time. The primary purpose of this Assistantship is to provide an advanced student with experience in preparation for a career in teaching.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value \$50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the student who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding \$150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed \$200, for tuition purposes may be made to students who are recommended by the Director of the Department of Social Work and Social Research.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

The Library

THE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH has its own Library and Reading Room including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

The M. Carey Thomas Library now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Room are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference.

Provision is made in the Quita Woodward Memorial Room for books for recreational reading. This collection, numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue, volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has a record of all books owned by the libraries of the region. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Health

CERTAIN HEALTH REQUIREMENTS must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within one year of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Resident students (those who live in the Graduate Center) must present a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria and the result of a Mantoux test, all done within one year of entrance. If the Mantoux test is reported positive, a chest X-ray is required. If these tests have not been completed when the student arrives in Bryn Mawr they will be done at the time of the initial physical examination at a fee of one dollar for each test.

Every resident graduate student must also file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every entering resident graduate student is examined by the physician of the college, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by the college physician are not re-examined. Any student, who at the time of the examination or at any time during the year, is not in good health, is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by the students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is necessary. The Infirmary is open when College is in session, and during the Spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the College physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

College Calendar

1964 - 1965

FIRST SEMESTER

1964

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|-----------|-----|--|
| September | 17. | Graduate Center open to resident graduate students |
| | 17. | Registration period for graduate students begins |
| | 22. | Work of the 80th academic year begins |
| | 24. | Registration period for graduate students ends |
| November | 25. | Thanksgiving holiday begins after last class and ends at 9 A.M. the following Monday |
| December | 16. | Christmas vacation begins at 12:45 P.M. |

1965

- | | | |
|---------|-----|--|
| January | 4. | Christmas vacation ends at 9 A.M. |
| | 15. | Last day of lectures |
| | 18. | College examinations begin |
| | 27. | Registration period for graduate students begins |
| | 28. | College examinations end |

SECOND SEMESTER

- | | | |
|----------|-----|--|
| February | 1. | Work of the second semester begins |
| | 3. | Registration period for graduate students ends |
| March | 26. | Spring vacation begins after last class |
| April | 5. | Spring vacation ends at 9 A.M. |
| May | 14. | Last day of lectures |
| | 17. | College examinations begin |
| | 28. | College examinations end |
| | 31. | Conferring of degrees and close of 80th year |

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates early in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.

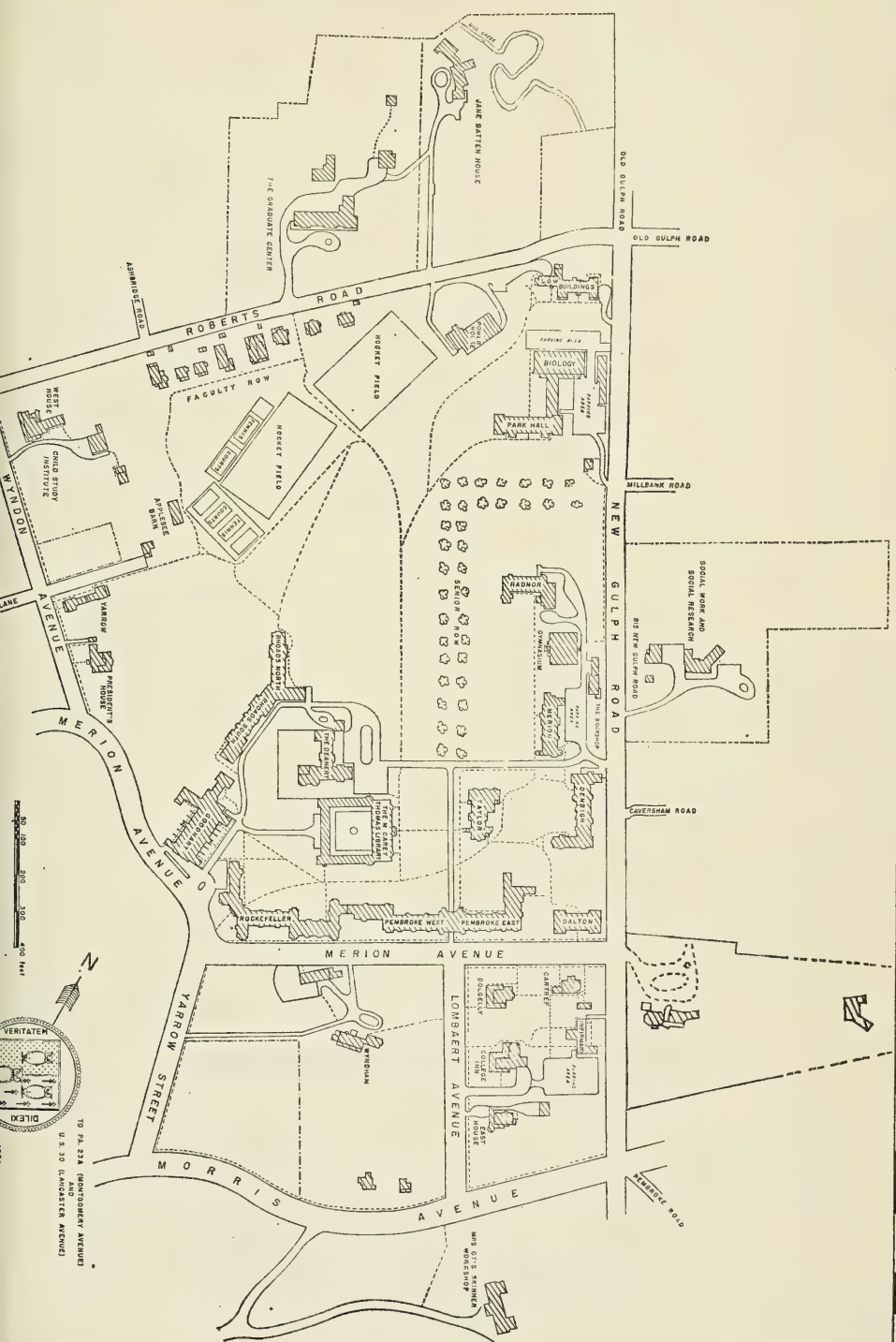
By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. No. 43) turning right at Pa. No. 23, which is 3.5 miles east of the toll gate; continue into Alternate No. 23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, which adjoins Suburban Station. Trailways buses arrive at 13th and Filbert Streets, two and one-half blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr. Greyhound has a few local buses to Bryn Mawr each day. Inquire at the terminal for schedules.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To reach 815 New Gulph Road from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.



ILLUSTRATIONS:

The M. Carey Thomas Library

815 New Gulph Road

Taylor Hall

Air View of Bryn Mawr College





BRYN MAWR, PENNSYLVANIA

BRYN MAWR

COLLEGE CALENDAR

THE GRADUATE SCHOOL 1964-1965



THE M. CAREY THOMAS LIBRARY

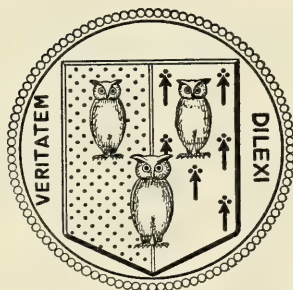
AIR VIEW OF MAIN CAMPUS, BRYN MAWR COLLEGE

Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF

1964 • 1965



JULY 1964

Volume LVII

Number 2

1964	1965		1966
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BRYN MAWR COLLEGE CALENDAR, Published December, July, August
and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

Second Class Postage paid at Bryn Mawr, Pa.

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College Calendar

The Graduate School 1964-1965

FIRST SEMESTER

1964

- September 11.* Final date for filing completed applications for admission to the Graduate School
- September 17.* Graduate Center opens to resident students
Registration period for graduate students begins
- September 22.* Work of 80th academic year begins at 9 A.M.
- September 24.* Registration period for graduate students ends
- September 26.* English test for foreign graduate students
- October 17.* French language examinations for graduate students
- October 24.* German language examinations for graduate students
- October 31.* Italian, Russian, Spanish and Statistics examinations for graduate students
- November 25.* Thanksgiving holiday begins after last class
- November 30.* Thanksgiving holiday ends at 9 A.M.
- December 16.* Christmas vacation begins at 12:45 P.M.

1965

- January 4.* Christmas vacation ends at 9 A.M.
- January 9.* Italian, Russian, Spanish and Statistics examinations for graduate students
- January 15.* Last day of lectures
- January 16.* German language examinations for graduate students

- January 18.* College examinations begin
- January 22.* Final date for filing completed applications for Semester II admission to the Graduate School
- January 23.* French language examinations for graduate students
- January 27.* Registration period for graduate students begins
- January 28.* College examinations end

SECOND SEMESTER

- February 1.* Work of the second semester begins at 9 A.M.
- February 3.* Registration period for graduate students ends
- March 26.* Spring vacation begins after last class
- April 5.* Spring vacation ends at 9 A.M.
- April 10.* Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School Office
- Italian, Russian, Spanish and Statistics examinations for graduate students
- April 17.* French language examinations for graduate students
- April 24.* German language examinations for graduate students
- May 1.* Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School Office
- May 14.* Last day of lectures
- May 17.* College examinations begin
- May 28.* College examinations end
- May 31.* Conferring of degrees and close of 80th academic year
- June 5.* Alumnae Day

Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880 and five years later the College opened. At the time of its founding not only was advanced education of a rigorous character difficult for women to obtain but graduate study as conceived at present was in its earliest stages. The lack of young women qualified to give the kind of instruction envisioned by the Founder led the first trustees to include in the plans for the new college the education of women right through to the Ph.D. Thus when Bryn Mawr College opened in 1885 it was with the first Graduate School for women and the first full graduate fellowships for women. Since 1931 the Graduate School has admitted both men and women. Scholarships, fellowships and assistantships are available for both men and women.

The purpose of graduate work at Bryn Mawr is to prepare students for professional careers in which scholarship and research are fundamental requirements. To this end emphasis is placed on independent work and special opportunities are provided for study and research, in small seminars, under the guidance of members of the Faculty.

Graduate work leading to the M.A. and Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, the natural sciences and psychology, and in mediaeval studies. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the advanced program in this Department leads to the Ph.D.

In all departments fellowships and scholarships are offered to applicants who are highly qualified for the work they propose to do. In a number of departments teaching or research assistantships are also available. Canadians may apply for fellowships or scholarships on the same basis as students from the United States. Awards are made to women students from overseas through the Marguerite N. Farley Fund and through teaching assistantships in French, German, Italian and Spanish.

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Alumnae Director, 1962-1967
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Alumnae Director, 1963-1968
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13. Mrs. Geoffrey S. Warren
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15. Mrs. Nathan M. Pusey
16. Mrs. Lyman Spitzer, Jr.

Bryn Mawr College Faculty and Staff

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LL.D., *Professor Emeritus of Political Science*

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- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*
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AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*

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1. On sabbatical leave for the year, 1964-1965.

- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, PH.D. (University of London), *Marjorie Walter Goodhart Professor of History*
- BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Professor of Social Work and Social Research*
- K. LAURENCE STAPLETON, A.B. (Smith College), *Mary E. Garrett Alumnae Professor of English Literature*
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*
- DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*
- PETER BACHRACH, PH.D. (Harvard University), *Associate Professor and Professor-elect of Political Science*¹
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor and Professor-elect of Russian, on joint appointment with Haverford College*
- JOACHÍN GONZÁLEZ MUELA, PH.D. (University of Madrid), *Professor-elect of Spanish*
- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor and Professor-elect of Physics*¹
- GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B. (Yale University), *Associate Professor and Professor-elect of Political Science*
- JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor and Professor-elect of Physics*

1. On sabbatical leave for the year, 1964-1965.

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor and Professor-elect of Sociology*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor and Professor-elect of Chemistry*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*

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ROBERT L. CONNER, PH.D. (Indiana University), *Associate Professor of Biology*

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JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Associate Professor of Social Work and Social Research*

MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Associate Professor of Political Science*²

GEORGE L. KLINE, PH.D. (Columbia University), *Associate Professor of Russian and Philosophy*³

PHILIP LICHTENBERG, PH.D. (Western Reserve University), *Associate Professor of Social Research*

1. On leave of absence for the year, 1964-1965.

2. On sabbatical leave for the year, 1964-1965.

3. On leave of absence, semester I, 1964-1965.

ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Associate Professor of English*

FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Associate Professor of Chemistry*

MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*

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JEAN A. POTTER, PH.D. (Yale University), *Associate Professor of Philosophy*

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CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*

MYRA L. UHLFELDER, PH.D. (Bryn Mawr College), *Associate Professor of Latin*

ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Lecturer and Associate Professor-elect of English on the Theresa Helburn Fund and Director of the Theatre, on joint appointment with Haverford College.*

WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Assistant Professor and Associate Professor-elect of Spanish*

KURT REICHERT, PH.D. (University of Minnesota), *Associate Professor-elect of Social Work and Social Research*

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JAMES E. SNYDER, PH.D. (Princeton University), *Associate Professor-elect of History of Art*

HARRY S. UPSHAW, PH.D. (University of North Carolina), *Associate Professor-elect of Psychology*

JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor and Associate Professor-elect of Chemistry*¹

1. On leave of absence for the year, 1964-1965.

- JAY MARTIN ANDERSON, PH.D. (Harvard University), *Assistant Professor of Chemistry*
- PATRICIA MILLAR BURLAND, M.S.S. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*
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- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
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- JANE COLLIER KRONICK, PH.D. (Yale University), *Assistant Professor of Social Work and Social Research*
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- CHARLES FRYE, PH.D. (Princeton University), *Lecturer and Assistant Professor-elect of Political Science*
- JANE C. GOODALE, PH.D. (University of Pennsylvania), *Assistant Professor-elect of Anthropology*
- ANNE COFFIN HANSON, PH.D. (Bryn Mawr College), *Assistant Professor-elect of History of Art*
- M. PAULINE JONES, PH.D. (Bryn Mawr College), *Lecturer and Assistant Professor-elect of French*
- IRENE NAGURSKI, PH.D. (Columbia University), *Assistant Professor-elect of Russian*
- DAVID P. NOWLIS, PH.D. (Harvard University), *Assistant Professor-elect of Education and Child Development*
- CATHERINE RODGERS, PH.D. (Brown University), *Lecturer and Assistant Professor-elect of English*
- PHYLLIS TURNBULL, D.en F.L. (University of Madrid), *Lecturer and Assistant Professor-elect of Spanish*¹
- GRETA ZYBON, M.S.W. (Syracuse University), *Assistant Professor-elect of Social Work and Social Research*
- FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*
- PAUL BRASS, PH.D. (University of Chicago), *Lecturer in Political Science*
- ISABELLE CAZEAUX, PH.D. (Columbia University), *Lecturer in Music*
- PORPHYRIOS DIKAIOS, L. ès L., D.LITT. (Oxford University), *Visiting Lecturer in Classical and Near Eastern Archaeology for Semester I*
- ALICE F. EMERSON, PH.D. (Bryn Mawr College), *Part-time Lecturer in Political Science*

1. On leave of absence for the year, 1964-1965.

- ROBERT E. GAHRINGER, PH.D. (Harvard University), *Lecturer in Philosophy*
- A. IRVING HALLOWELL, PH.D. (University of Pennsylvania), *Visiting Lecturer in Anthropology*
- JOAN L. KLEIN, PH.D. (Radcliffe College), *Part-time Lecturer in English*
- MARK PHILLIP KLEIN, M.S. (Indiana University), *Lecturer in Physics*
- KATHRYN KOENIG, PH.D. (University of Michigan), *Lecturer in Psychology*
- SEYMOUR LEVENTMAN, PH.D. (University of Minnesota), *Visiting Lecturer in Sociology*
- WILLIAM H. MARSHALL, PH.D. (University of Pennsylvania), *Visiting Lecturer in English*
- JANE ROYLE McCONNELL, PH.D. (Bryn Mawr College), *Part-time Lecturer in Biology*
- WILLIAM R. A. MUNTZ, D.PHIL. (Oxford University), *Lecturer in Psychology*
- MARIAN PARISEAU, PH.D. (University of Minnesota), *Lecturer in Chemistry*
- ROBERT PATTEN, M.A. (Princeton University), *Lecturer in English*
- IVAN RUDNYTSKY, PH.D. (University of Prague), *Visiting Lecturer in History*
- RUTH O. STALLFORT, M.S. (Simmons College School of Social Work), *Part-time Lecturer in Social Work and Social Research*
- ERIKA ROSSMAN BEHREND, M.A. (University of Pennsylvania), *Research Associate in Psychology*
- GEORGE EAVES, PH.D. (Wayne State University), *Research Associate in Biology*
- LISELOTTE MEZGER FREED, PH.D. (Columbia University), *Research Associate in Biology*
- JANICE TAYLOR GORDON, PH.D. (Bryn Mawr College), *Research Associate in Chemistry*
- JAMES H. HUDSON, M.A. (University of Michigan), *Research Associate in Social Work and Social Research*

DOROTHY S. SMYTHE, A.B. (Mount Holyoke College), *Research Associate in Biology*

LARRY STEIN, PH.D. (University of Iowa), *Research Associate in Psychology*

CLELIA S. WOOD, PH.D. (Bryn Mawr College), *Research Associate in Chemistry*

SANDRA M. BERWIND, M.A. (Bryn Mawr College), *Part-time Instructor in English*

DOROTHY CORBETT, M.A. (Radcliffe College), *Instructor in History of Religion*

ELLEN GINSBERG, PH.D. (University of Chicago), *Instructor in French*

ELEANOR WINSOR LEACH, PH.D. (Yale University), *Instructor in English*

PETER LEACH, M.F.A. (Yale University), *Instructor in English*

RAMONA LIVINGSTON, A.B. (William Jewell College), *Instructor in English*

ELIZABETH L. PINNER, M.S.W. (University of Pittsburgh), *Part-time Instructor in Social Work and Social Research*

DORIS QUINN, M.A. (Oxford University), *Part-time Instructor in English*

T. LESLIE SHEAR, M.A. (Princeton University), *Instructor in Greek and Latin*

L. DIANE BERNARD, M.S.S. (Tulane University), *Part-time Instructor-elect in Social Work and Social Research*

M. SUSAN BRUBAKER, M.S.W. (University of Pennsylvania), *Part-time Instructor-elect in Social Work and Social Research*

MARGARET HEALY, M.A. (St. John's University), *Part-time Instructor-elect in Philosophy*

MARION IVES, A.B. (Vassar College), *Part-time Instructor-elect in German*

ELEANOR K. PAUCKER, PH.D. (University of Pennsylvania), *Instructor-elect in Spanish*

STEPHEN PEPPER, M.A. (Columbia University), *Instructor-elect in History of Art*

- PATRICIA H. RUSSELL, M.A. (University of Toronto), *Instructor-elect in English*
- DIANNE H. WARNER, M.A. (University of Michigan), *Instructor-elect in Education and Director of the Phebe Anna Thorne Nursery School*
- FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*
- WILLIAM H. REESE, Ph.D. (University of Berlin), *Director of Orchestra*
- DAVID B. ARNOLD, B.S. (University of Pennsylvania), *Part-time Assistant in Chemistry*
- PAUL A. BANYACSKI, B.A. (Eastern Baptist College), *Part-time Assistant in Philosophy*
- BARRY BERGER, M.A. (Bryn Mawr College), *Part-time Assistant for semester I in Psychology*
- MARY ANN CALKINS, M.A. (Bryn Mawr College), *Part-time Assistant in History*
- THOMAS COLMAN, B.S. (Niagara University), *Part-time Assistant in Chemistry*
- TOBY EISENSTEIN, A.B. (Wellesley College), *Part-time Assistant in Biology*
- JOYCE GREENE, M.A. (Wesleyan University), *Part-time Assistant in Biology*
- THOMAS HIGGINS, M.A. (Bryn Mawr College), *Part-time Assistant in Physics*
- MICHAEL HOFFMAN, B.S. (University of Pennsylvania), *Part-time Assistant in Chemistry*
- PETER HOLMES, A.B. (Franklin and Marshall College), *Part-time Assistant for semester I in Psychology*
- ANTHONY KAUFMANN, A.B. (Dartmouth College), *Part-time Assistant in Anthropology*
- OK-YUL KIM, M.A. (Brown University), *Part-time Assistant in Political Science*
- KATHLEEN KIRK, A.B. (Bryn Mawr College), *Part-time Assistant for semester I in Psychology*
- EVE L. MACDONALD, A.B. (Wellesley College), *Part-time Assistant in Biology*

- SARA MILLER, M.S. (Yale University), *Part-time Assistant in Chemistry*
- JOAN L. MULLER, A.B. (Goucher College), *Part-time Assistant in Classical and Near Eastern Archaeology and in History of Art*
- GYDA OTTEN, B.S. (Purdue University), *Part-time Assistant in Physics*
- JOHN RANISESKI, M.S. (St. Joseph's College), *Part-time Assistant in Chemistry*
- DAVID SCOTT, M.E. (Yale University), *Part-time Assistant in Physics*
- WILLIAM SELLYEY, B.S. (Villanova University), *Part-time Assistant in Physics*
- LUBA SHARP, A.B. (Swarthmore College), *Part-time Assistant for semester I in Psychology*
- KATHLEEN STICKEL, M.A. (Bryn Mawr College), *Part-time Assistant in Philosophy*
- HERBERT WYLEN, M.A. (Bryn Mawr College), *Part-time Assistant in Physics*
- UN-JIN PAIK ZIMMERMAN, PH.D. (Bryn Mawr College), *Part-time Assistant in Chemistry and Physics*

Officers of Administration

- CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*
- LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*
- CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*
- PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*
- JULIE E. PAINTER, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*
- CLARISSA WARDWELL PELL, *Director of the Resources Committee*
- PATRICIA ONDERDONK PRUETT, M.A. (Bryn Mawr College), *Assistant Dean of the College*
- HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), M.A. (Bryn Mawr College), *Librarian, West Wing*

ETHEL W. WHETSTONE, A.B.L.S. (University of North Carolina), *Librarian, Departmental Libraries*

ELIZABETH C. E. GREENALL, M.L.S. (McGill University), *Assistant in Cataloguing Department*

CORNELIA A. TUCKER, M.S.L.S. (Louisiana State University), *Assistant in the Circulation Department*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

N. BATES BUCKNER, A.B. (Bryn Mawr College), *Warden-elect*

JOAN CROWTHER, M.A. (Bryn Mawr College), *Warden of Rhoads Hall*

MARGARET HEALY, M.A. (St. John's University), *Warden of Pembroke West*

JOAN F. HOMER, A.B. (Temple University), *Warden-elect*

SYLVIA KARTSONIS, M.A. (Bryn Mawr College), *Warden-elect*

MARY PATTERSON MCPHERSON, M.A. (University of Delaware), *Warden of Pembroke East*

JULIA NASH, M.A. (University of Pennsylvania), *Warden of Denbigh*

HELGA PILLWEIN, B.S. (St. Joseph's College), *Warden of the German House*

MARÍA ROBLEDÓ, A.B. (College of William and Mary), *Warden of the Spanish House*

Health

PEARL S. PITT, M.D. (Columbia University, College of Physicians and Surgeons), *College Physician*

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

GAIL STRATHDEE, B.S. (Tufts University), *Instructor-elect in Physical Education*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

LOUISE BRUNK, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

JEANNE MURRAY, M.S.W. (University of Washington), *Social Caseworker*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

- LELIA BRODERSEN, M.A. (Temple University), *Psychologist*
 ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*
 ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*
 ELI HARMON, M.D. (Tulane University School of Medicine), *Consulting Psychiatrist*
 JONAS B. ROBITSCHER, M.D. (George Washington University), *Consulting Psychiatrist*
 HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
 CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
 BONNIE H. LESHNER, A.B. (Bryn Mawr College), *Assistant in Psychology*

Phebe Anna Thorne School

- DIANNE H. WARNER, M.A. (University of Michigan), *Director*
 CATHERINE SCHWEITZER, M.A. (University of Wisconsin), *Head Teacher*
 JOAN FRASER, B.S. (Northwestern University), *Assistant Teacher*
 MARY GIBBS SMITH, A.B. (Bryn Mawr College), *Assistant Teacher*

Committees

The Graduate Committee

- PRESIDENT MCBRIDE, *Chairman*
 DEAN BLISS, *Vice-Chairman*
 MR. MITCHELL
 MR. SCHNEIDER
 MR. GUGGENHEIM
 MRS. LOWER
 MR. BERLINER
 MR. WATSON
 MR. LATTIMORE
 MISS STAPLETON
 MR. FERRATER MORA

The Graduate Scholarships Committee

- DEAN BLISS, *Chairman*
 PRESIDENT MCBRIDE, *ex-officio*
 MR. CONNER
 MR. BERTHOFF
 MRS. MAW

The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts and sciences, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college. Applications should be filed, complete, by the dates specified on pages 4 and 5.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain undergraduate courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. (See requirement in the Departments of Education and Child Development and of Physics.) Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, Educational Testing Service, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Dean of the Graduate School each semester during the registration period. Changes in registration require the approval of the Dean.

Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (usually not more than six hours a week) and time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have ample opportunity for conference and discussion.

Seminars and graduate courses are described under the announcements of the Departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by a member of the faculty but carried on independently by the student. Such work may consist of reading with selected reports, research with results submitted or a combination of both.
2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Such undergraduate courses are listed with the graduate courses in this Calendar.

Journal Clubs and Colloquia. In many departments the members of the faculty and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

Prerequisites. The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the members of the faculty. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students will register for such work at the Graduate Office early in June.

The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.
2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates

who have held academic appointments at Bryn Mawr College and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required.

Students whose mother tongue is not English may, with the approval of their department, be excused from one of these language examinations. (They may not offer their own language.)

THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, in the case of well-prepared candidates, can be accomplished in one academic year. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate's major subject and allied fields as the various departments shall require.

Application. The candidate applying for the degree in the department of the major work must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December 1 of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics and Education may offer Statistics instead of the second language. In Psychology and Sociology, Statistics is required and the language requirement is reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

The language requirement is met by passing a written examination set by the major department in reading, at sight and with a dictionary, technical material in the candidate's major field.

Examinations in languages, and in the techniques which in certain departments may be substituted for one language, are held three times each year, in October, January and April. At least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be

* See the statements under the Departments for the departmental language requirements.

received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless both examinations have been passed by the January examination period, or, in special cases approved by the major department and the Graduate Committee, permission has been obtained to postpone one until the April period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

Only one of these language examinations is required of students whose mother tongue is not English.* Instead of a second, they will be asked to take an examination in English at the beginning of the academic year. Later in the first semester the students' departments will be asked to certify that their knowledge of English meets the departmental requirement. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their proficiency in languages is inadequate.

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take three units of work in one major department or two in a major department and one in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their program.

* They may not offer their own language.

Foreign students in the Department of Psychology will meet the requirement with Statistics; students in the Department of Education may do so if they prefer; students in the Department of Sociology may do so if their native language is French or German.

Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time. The date when the paper is due is set by each Department for candidates in residence; for those not in residence it must be submitted in finished form by May 1 of the year of the degree.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework, Community Organization and Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. In Community Organization preparation is provided for

Community Welfare Planning, Neighborhood Organization, Urban Renewal and Intergroup Relations. At the discretion of the faculty, a few second-year students will be allowed to concentrate in Social Work Research.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college or university of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or in the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:

- Social Welfare Policy and Services I and II
- Human Growth and Behavior I and II
- Community Organization I
- Social Research
- Social Casework I
- Social Casework II or Community Organization II
- Introduction to Statistical Concepts (non-credit)
- Field Instruction

The courses in the second year are in part determined by the principal area of practice of the student:

- Social and Cultural Concepts in Social Work Practice
- Social Agency Administration
- Social Issues and Social Policy
- Psychoanalytic Concepts in Social Work Practice
- Social Group Work
- Community Organization III and IV
- Social Casework III and IV
- Field Instruction
- Thesis Seminar

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

Special Part-time Program. It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$1300 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$450 a year or \$225 a semester. In the Department of Social Work and Social Research the part-time fee is \$350 a year.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work and Social Research are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$10 per course per semester, or \$25 per semester for three courses.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee	\$1300
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Residence (including health service)	1000
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Contingent

Dispensary Fee (for non-resident students)	15
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Social Work Field Instruction Fee	20
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Graduation Fee	20
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Expenses, Christmas and spring vacations, commuting	variable
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Laboratory Fees for undergraduate courses (not for grad- uate credit), per course per year	20
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THE GRADUATE CENTER

Residence for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there. The bedrooms are furnished except for curtains and rugs. Bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.*

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to

* Students applying for residence in the Graduate Center are asked to submit reports of recent medical examinations. See pp. 51-52.

reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from the College for six weeks or more because of illness will also be granted a proportionate reduction for food. Allowance cannot be made for dietary restrictions.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second.

Residence in the Center is for the academic year only—from the opening of college in the fall until Commencement Day. One of the residence halls will be kept open during Christmas and spring vacations where students may live for a small charge. Baggage will be accepted at the College after September 15. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students, men or women, may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth.

Completed applications for scholarships for foreign women must be received not later than January twenty-fifth. The applicants will be informed of the action taken early in March.

FELLOWSHIPS

Twenty-three Fellowships, value \$2800 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Russian, Social Work and Social Research (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

The Theodore N. Ely Fund. An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling. The income on this fund is to be used for graduate scholarships and fellowships.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate Fellowship in honor of Katharine Elizabeth McBride, President of the College, was established by gifts from a few friends of Miss McBride among the alumnae.

The Max Richter Fellowships in Political Science. One or more Fellowships, through the income of the Max Richter Fellowship Fund, are awarded as teaching fellowships or fellowships for study and research to advanced students interested in political affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a graduate student working toward the doctorate.

Fellows by Courtesy

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value \$2100 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value \$2100 each, to men. Tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of \$2300 which covers full tuition and residence in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

The Marguerite N. Farley Scholarships for Foreign Women. Five foreign scholarships, of the value of \$2300, are offered to women from any country outside the United States and Canada.

A Special British Scholarship, of the value of \$2300, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$2400 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week

to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Scholarships of \$2100 each are open to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in a field that includes both of them.

Scholarships may also be awarded to students planning to specialize in one science only, but desiring further training in a related science. Students who wish to begin preparation in one or more of the natural sciences are also eligible for scholarships and on this plan such students, who are essentially taking a "Fifth-Year" of undergraduate work, are considered special graduate students whose program will not lead to a higher degree in their first year in the Graduate School.

Two fellowships of the value of \$2800 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$1300 a year. For residence in the Graduate Center an additional \$1000 would be charged.

When appropriate a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for a specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women.

SOCIAL WORK AND SOCIAL RESEARCH

The Carola Woerishoffer Fellowship in Social Work and Social Research, of \$2800, is offered annually to a student in the Department.

The Carola Woerishoffer Scholarship in Social Work and Social Research, of \$2100, is offered annually to a student in the Department.

Agency Fellowships and Scholarships. A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, to both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Vocational Rehabilitation Administration offers traineeships of \$1800 and \$2000 (plus the cost of tuition) for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation. Traineeships of \$2400 for the third year and \$3600 for the fourth year of study (plus the cost of tuition) are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November 1 of the year preceding the proposed year of study.

Both local agency stipends and federal traineeships are awarded to the student by the Department.

The Alumni Association of the Department of Social Work and Social Research usually provides a tuition scholarship open to either first- or second-year students.

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or

experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

TRAVELLING FELLOWSHIPS

The Fanny Bullock Workman Fellowship, value \$2500-\$2600, for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at a German university. It is awarded annually on the basis of evidence regarding ability to conduct independent investigations in the fields of Teutonic Philology or German Literature to a candidate who has completed at least one year of graduate study at Bryn Mawr College. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

REGULATIONS FOR FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships are expected to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her

work during her year on the fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

THE HELEN SCHAEFFER HUFF MEMORIAL RESEARCH FELLOWSHIP

This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by

the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.

PARTIAL TUITION GRANTS

The Trustees have established a small fund for partial tuition grants to students who are unable to undertake full-time graduate work. The grants are made on the basis of need as well as of high academic standing. Those interested in applying should provide the Dean of the Graduate School with full financial statements and ask the departmental chairmen to write their supporting letters.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$400, are given on the basis of need to holders of scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted if possible by April 15.

GRADUATE ASSISTANTSHIPS

Teaching Assistantships are available to graduate students in the Departments of Biology, Chemistry, Education, Geology, Physics, Psychology and Social Work. The positions carry salaries of \$2100-\$2300 for half-time work (\$1400-\$1550 for one-third) and include free tuition for half to two-thirds time graduate work. They provide teaching and laboratory experience outside the classroom, mainly in the undergraduate laboratories.

Research Assistantships are available in Chemistry, Physics, Psychology and Social Work. These are usually for half-time work and provide half-time free tuition in addition to salaries of \$2100-\$2300.

Other Assistantships, usually for one-third time work and paying \$1400-\$1550, are offered in the Departments of Economics, Education, History, History of Art, Mathematics, Philosophy, Political Science, and Sociology and Anthropology. The duties of assistants differ in different departments. In all departments, the assistant is entitled to carry on graduate study for which tuition is remitted.

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
 - a. To students coming from New Jersey.
 - b. To students coming from Missouri.
 - c. To students coming from any other location who have had not less than one year of residence at the College.
2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn

Mawr College, or by a Committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; gives assistance in choosing a vocation; and acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers, placement offices of other colleges, and employment agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment in this country.

The Library

THE M. CAREY THOMAS LIBRARY containing about 300,000 volumes has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 50.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediaeval Library and consisting mainly of philosophical and theological works printed in the fifteenth century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in the region by which research workers are aided in bibliographical

problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference should secure letters of introduction from the Bryn Mawr librarian.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-39, 1946-47) with the Department of Archaeology. She also has given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

Laboratories

LABORATORIES and classrooms for Biology, Chemistry, Geology, Mathematics and Physics are to be found together, for the first time in many years, in the three buildings of the Science Center. The third building in this complex, the building for the physical sciences, was just completed in the summer of 1964. Laboratories and classrooms for psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building completed in 1958 for the biological sciences. South of Park Hall is the building for the physical sciences which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

A Computing Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment, available for the use of students and faculty of both colleges.

Each science department has its own well-stocked library, which includes the appropriate scientific journals. In addition, the Department of Geology has over 25,000 maps, on deposit from the U. S. Army Map Service. The Department's large collection of minerals has been greatly enhanced by the gift of the Mineral Collection of George Vaux, Jr.

Health

THE INFIRMARY

THE COLLEGE maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary the student must meet the expense. The Infirmary is open when college is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven-day period the fee is \$9 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet this expense.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the college physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

CERTIFICATES REQUIRED

All graduate students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entering to the Gradu-

ate School and exhibited a typical or immune reaction to this vaccination. Resident students who have not filed this certificate will be vaccinated at the time of their entrance physical examinations and charged a fee of one dollar. Non-residents will not be permitted to register without this certificate. There is no exception to this rule.

In addition to the above, students applying for residence in the Graduate Center are asked to submit reports of recent medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization against diphtheria and tetanus, by toxoid, and against poliomyelitis within a year of entrance. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

INSURANCE

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The cost of X-rays and special laboratory procedures is not included. The premium for this insurance is \$15 for a full year starting October 1. Students should apply to the Comptroller of the College.

Announcement of Courses

1964-1965

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students.

Square brackets enclosing the titles of courses indicate that, although the courses are regular parts of the program, they are not given in the current year.

Undergraduate courses in each department are numbered according to the following system: 301, 302, etc. indicate advanced undergraduate courses; the letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D.,

Chairman

L. JOE BERRY, PH.D.

JANE M. OPPENHEIMER, PH.D.

DEAN OF THE GRADUATE**SCHOOL AND PROFESSOR:** ELEANOR A. BLISS, SC.D.**ASSOCIATE PROFESSOR:** ROBERT L. CONNER, PH.D.*Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Biology, Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cytology, Experimental Embryology or Physiology but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The

Final Examination consists of a three-hour written examination covering the areas of study and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

SEMINARS AND GRADUATE COURSES

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr. Conner: *Biochemistry (offered in 1964-65)*

Selected topics in intermediary metabolism.

Biochemical techniques.

Cellular Physiology.

Miss Gardiner: *Cytology (offered in 1964-65)*

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology (offered in 1965-66)*

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

Mr. Berry: *Physiology (offered in 1965-66)*

Kinetics of biological reactions.

Mechanisms of defense against infectious diseases.

Physiological techniques.

Physiology of micro-organisms.

*Bacteriology*Miss Bliss: *Bacteriology (Semester I)*

Bacteria and antibacterial agents.

ADVANCED UNDERGRADUATE COURSES

Any advanced undergraduate course may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

- [301. *Theories of Heredity*: Miss Gardiner.]
- 302. *Developmental Physiology*: Miss Oppenheimer.
- 303. *Physiology of Micro-organisms*: Mr. Berry.
- 305. *Biochemistry*: Mr. Conner.

Chemistry

PROFESSORS:	ERNST BERLINER, PH.D., <i>Chairman</i> GEORGE L. ZIMMERMAN, PH.D.
ASSOCIATE PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D. ¹
ASSISTANT PROFESSOR:	JAY MARTIN ANDERSON, PH.D.
LECTURERS:	FRANCES BONDHUS BERLINER, PH.D. MARIAN PARISEAU, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students may specialize in either Organic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of Chemistry different

1. On sabbatical leave for the year 1964-1965.

from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the M.A. or Ph.D. must offer German, and either French or Russian.

Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

- Mr. Anderson: *Physical Chemistry*
Nuclear Magnetic Resonance.
Introduction to Molecular Spectroscopy.
Intermediate Quantum Mechanics.
- Mr. Berliner: *Organic Chemistry*
Physical Organic Chemistry.
Physical-Organic Aspects of Aromatic Chemistry.
Structure and Physical Properties of Organic Compounds.
- Mrs. Berliner: *Organic Chemistry*
Chemistry of Heterocyclic Compounds.
Natural Products.
- Mr. Mallory: *Organic Chemistry*
Organic Photochemistry.
Radical Reactions.
Recent Methods in Organic Synthesis.
- Mr. Varimbi: *Inorganic and Physical Chemistry*
Inorganic Chemistry.
Statistical Thermodynamics.
Theory of Solutions.
- Mr. Zimmerman: *Physical Chemistry*
Photochemistry.
Introduction to Chemical Physics.
Applications of Group Theory in Quantum Mechanics.
- Biochemistry*: See under Biology.

SELECTED UNDERGRADUATE COURSES

- 301b. *Inorganic Chemistry*: Miss Pariseau.
- 302 [a and b]. *Advanced Organic Chemistry*: Mr. Berliner and Mr. Mallory.
- 303a. *Chemical Thermodynamics*: Mr. Zimmerman.
- 303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Zimmerman.
- 304a. *Applied Mathematics for Chemists*: Mr. Anderson.
- [305b. *Advanced Inorganic Chemistry*: Mr. Varimbi.]
- Colloquium*. All members of the Department and the graduate students, and often outside speakers, meet every week to discuss current research in chemistry.

Classical and Near Eastern Archaeology

PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,
Chairman

ASSISTANT PROFESSORS: KYLE M. PHILLIPS, JR., PH.D.
BRUNILDE S. RIDGWAY, PH.D.

VISITING LECTURER: PORPHYRIOS DIKAIOS, L. ès L., D. LITT.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

Allied Subjects: Greek and Latin Language and Literature; an ancient Near Eastern Language and Literature; History of Art; Ancient History; Anthropology; a science integrated with the work of the major subject.

Language Requirements. For the M.A. and the Ph.D., a reading knowledge of German and one other modern foreign language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have a general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, architecture,

monumental painting, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, aspects of Near Eastern archaeology. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this is included in the final oral examination.

Excavations. The current excavation project of the Department is an investigation of the Bronze Age habitation of southwestern Asia Minor. Excavations at an Early Bronze Age site near Elmali in the interior of Lycia will continue in the fall of 1964.

Advanced graduate students will participate in the excavation which will be run as a field seminar in the first semester. The program provides instruction in excavation techniques combined with the study of Bronze Age problems in the Aegean and western Anatolia. Publication of the excavation results will be prepared on the basis of the joint field reports by the participants.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the courses in Classical Archaeology offered by the University. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The seminars offered in 1964-65 are the following:

Miss Mellink: *Field seminar in Aegean and Anatolian Archaeology* (Excavations in Lycia, semester I).

Problems in Aegean and Anatolian Archaeology (Seminar at Bryn Mawr, semester II).

Mrs. Ridgway: *East Greek Sculpture*.

Mr. Phillips: *Problems of Ancient Paintings and Mosaics*.

ADVANCED UNDERGRADUATE COURSES

201b. *Egypt and Mesopotamia*: Miss Mellink.

202b. *Ancient Greek Cities and Sanctuaries*: Mrs. Ridgway.

203a. *Greek Sculpture*: Mrs. Ridgway.

203b. *Later Greek and Roman Sculpture*: Mr. Phillips.

205b. *Aegean Archaeology*: Miss Mellink.

301a. *Greek Vase-Painting*: Mr. Phillips.

301b. *Ancient Architecture*: Mrs. Ridgway.

[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]

304a. *Ancient Monumental Painting*: Mr. Phillips.

Comparative Philology and Linguistics

PROFESSOR OF ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

VISITING PROFESSOR

OF FRENCH: WILLIAM J. ROACH, PH.D.

ASSOCIATE PROFESSOR

OF GERMAN: WILLIAM Z. SHETTER, PH.D.

ASSISTANT PROFESSOR

OF ENGLISH: ROBERT B. BURLIN, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject. For courses in Philology, see statements under the Departments of English, French, German, Italian and Spanish.

Economics

PROFESSOR: JOSHUA C. HUBBARD, PH.D.

ASSOCIATE PROFESSOR: MORTON S. BARATZ, PH.D. *Chairman*

ASSISTANT PROFESSOR: RICHARD B. DUBOFF, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Allied Subjects. Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics. Courses in these subjects may be taken at the University of Pennsylvania under the Reciprocal Plan (see page 27).

Language Requirements. For the Ph.D. two modern languages.

For the M.A. two modern languages or one modern language and advanced statistics or mathematical economics.

Program and Examination for the M.A. The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and Economic History. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study.

Mr. Hubbard:

Business Cycles and Full Employment.

Contemporary Economic Theory.

Economic Dynamics.

Money and Banking.

Mr. Baratz:

Government and Business.

Industrial Structure and Market Behavior.

Prices and Price Theory.

Mr. DuBoff:

Economic History.

SELECTED UNDERGRADUATE COURSES

301b. *Contemporary Economic Thought*: Mr. Hubbard.

Journal Club. Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, recent books or projects of interest.

Education and Child Development

PRESIDENT OF THE

COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., Sc.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

ASSISTANT PROFESSORS:

ETHEL W. MAW, PH.D.
DAVID P. NOWLIS, PH.D.

INSTRUCTOR AND DIRECTOR,

THORNE SCHOOL: DIANNE WARNER, M.A.

ASSOCIATE PROFESSORS

OF SOCIAL WORK AND
SOCIAL RESEARCH:

JEAN D. HARING, M.A., M.S.W.
JEANNE C. POLLOCK, M.S.W.

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology, school counseling and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. A sequence leading to specialization in elementary school counseling with supervised field work in selected schools is open to qualified students. Under the Reciprocal Plan with the University of Pennsylvania (see page 27) the equivalent of one seminar may be taken at that institution.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German, for the Ph.D.; candidates for the M.A. must either (1) pass examinations in French and German or (2) pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although one of three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered and a one-hour oral examination on the M.A. paper.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination on the fields presented. One of the written papers may be in the allied field. The Final Examination is in the field of the dissertation.

THE PHEBE ANNA THORNE SCHOOL AND THE CHILD STUDY INSTITUTE

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides

opportunity for direct experience with early child development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

The American School.

Mrs. Cox:

**Advanced Clinical Evaluation (including the Projective Techniques).*

Elementary School Counseling.

**The Individual.*

Adolescent Development.

Mrs. Warner:

**Developmental Psychology.*

**Early Childhood Education.*

**Growth and Learning in the Kindergarten.*

Mrs. Maw:

Educational Psychology.

Curriculum of the Elementary School.

History and Philosophy of Education.

**Research and Measurement in Education and Child Development.*

Mr. Nowlis:

**The Psychology of Exceptional Children.*

**Diagnosis and Treatment of Learning Problems.*

The School as a Social Institution.

* Laboratory practice required.

Mrs. Pollock and Miss Haring:

Social Case Work (given in cooperation with the Department of Social Work and Social Research).

Supervised counseling experience in the public school: 12 hours per week for two semesters.

SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology*: Mrs. Cox.]

202a. *Child Psychology*: Mrs. Cox.

Prerequisite: General Psychology. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

These two courses, 301a and 302a, satisfy the practice-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements for practice-teaching can be made. Laboratory: 12 hours per week supervised teaching.

CERTIFICATE TO TEACH

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes General Psychology followed by Principles of Teaching and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised practice teaching in the public school.

Much of the basic work leading to the elementary school certificate is offered by the Department. Additional required courses may be taken at the University of Pennsylvania.

Fulfillment of certification requirements does not fully satisfy requirements for the Master of Arts degree, but because there is some overlap, an able full-time student can meet the requirements for both the certificate and the degree in three semesters.

English

PROFESSORS:	K. LAURENCE STAPLETON, A.B., <i>Chairman</i> MARY KATHARINE WOODWORTH, PH.D.
ASSOCIATE PROFESSORS:	WARNER B. BERTHOFF, PH.D. ISABEL GAMBLE MACCAFFREY, PH.D.
ASSISTANT PROFESSORS:	ROBERT B. BURLIN, PH.D. CATHERINE RODGERS, PH.D.
VISITING LECTURER:	WILLIAM H. MARSHALL, PH.D.
LECTURERS:	JOAN L. KLEIN, PH.D. ROBERT L. PATTEN, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department. Ph.D. candidates entering in 1963 and thereafter will be expected to present evidence of a knowledge of Latin equivalent to two years of high school training. This requirement must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length. The M.A. paper is due on May 1.

Program and Examinations for the Ph.D. Candidates for the Ph.D. in English will be expected to spend at least one year in

full-time graduate work in the Department. The equivalent of six units of graduate work is required, one of which may be in an allied field. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted. The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the mediaeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written the dissertation.

SEMINARS AND GRADUATE COURSES¹*English Literature*

Mr. Burlin:

1964-65: Old English Literature.

1965-66: Chaucer and His Contemporaries.

Mrs. MacCaffrey:

1964-65: Spenser and Sixteenth-Century Poetry.

Miss Stapleton:

1964-65: Milton.

1965-66: Studies in Poetry.

Miss Woodworth:

1964-65: Contemporary Literature.

1965-66: Literature of the Eighteenth Century.

Mr. Marshall:

1964-65: The Romantic Period.

Mr. Berthoff:

1964-65: Studies in American Literature.

SELECTED UNDERGRADUATE COURSES

201. *Chaucer*: Mr. Burlin.

202. *Shakespeare*: Miss Russell.

[203. *The Romantic Period*: Mr. Patten.]

204. *The Victorian Period*: Mr. Patten.

206b. *Restoration Drama and the Age of Dryden*: Mrs. Klein.

1. Since seminars run through the year, students must begin work in the first semester.

- 207. *English and American Literature of the Last Half-Century*: Miss Woodworth.
- 208. *American Literature*: Mr. Berthoff.
- [212b. *Blake*: Miss Woodworth.]
- 301. *Narrative, Plays and Lyrics of the Later Middle Ages*: Miss Rodgers.
- [302. *The Sixteenth Century*: Mrs. MacCaffrey.]
- 304. *The Seventeenth Century*: Mrs. MacCaffrey.
- 305. *The Eighteenth Century*: Miss Woodworth.

French

VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D.
ASSISTANT PROFESSORS:	BERNARD TOSCANI, PH.D. M. PAULINE JONES, PH.D.
INSTRUCTOR:	ELLEN GINSBERG, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students specialize in Modern French Literature. In general, it is required that Old French Philology and Literature be offered as the allied subject. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is

required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examination for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. Usually one paper is in Old French Philology and Literature. If another allied subject is offered, questions on Old French Philology and Literature will be included in one of the fields of the major examination papers. The Final Examination is oral and covers the field in which the dissertation has been written.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr. Roach:

Introduction à la littérature du moyen age, présentation systématique des éléments de grammaire historique.

Modern French Literature

Mr. Guggenheim:

*Le moi dans la littérature française de Montaigne à Gide.
Rousseau et le Prérromantisme.
Balzac et Flaubert.
Stendhal.*

Miss Jones:

*Baudelaire.
Scève et Mallarmé.
Origines de la poésie moderne.*

Mr. Maurin:

*Aspects de la solitude dans la littérature française.
Rabelais et Montaigne.
Arts Poétiques de Mallarmé au Surréalisme.
Gide et Mauriac.*

Mrs. Ginsberg:

*Aspects de la poésie au XVI Siècle.
La tradition philosophique au XVIII Siècle.*

Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

- [301. *French Poetry from Villon to Valéry:* Mr. Maurin, Miss Jones.]
- 302. *French Drama:* Mrs. Ginsberg, Miss Jones.
- 303. *The French Novel from 1700 to 1950:* Mr. Maurin, Mr. Guggenheim.
- [304. *French Essayists and Moralists:* Mr. Maurin, Mr. Guggenheim.]

Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,
Chairman

LINCOLN DRYDEN, PH.D.
DOROTHY WYCKOFF, PH.D.

ASSISTANT PROFESSOR:

JEROME REGNIER, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson, Miss Wyckoff, Mr. Regnier: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff, Mr. Regnier: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in Petrology and Metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.

Mr. Watson: *Mineralogy*

The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden, Mr. Regnier: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mr. Watson, Mr. Regnier: *Geochemistry*

A study of the distribution of elements, crystal structure and chemistry, mineral equilibria, et cetera.

SELECTED UNDERGRADUATE COURSES

- 301. *Structural and Field Geology*: Mr. Watson.
- [302. *Stratigraphy*: Mr. Dryden.]
- 303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Mr. Regnier, Mr. Watson.
- [305. *Geography*: Miss Wyckoff.]
- [306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.]

German

ASSOCIATE PROFESSORS:	CHRISTOPH E. SCHWEITZER, PH.D., <i>Chairman</i>
	WILLIAM Z. SHETTER, PH.D.
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A.
	HUGO SCHMIDT, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject.

Language Requirements. Normally French and Latin for the M.A. and Ph.D. For the M.A. another language may substitute for Latin.

Program and Examination for the M.A. The program consists of one or two courses in literature and one in philology. The third

unit may be in an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examination for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, and one of the following: Old Saxon, Old English, or Old Norse. Work in Comparative Indo-European, structural linguistics, and a non-Indo-European language is recommended. Those majoring in German literature will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr. Schweitzer:

German Baroque Literature.

Goethe and Schiller.

The "Bildungsroman."

Mr. Schmidt:

Lyric Poetry Since Goethe.

The Modern German Novel.

Methods of Literary Criticism.

Mr. Shetter:

Linguistics.

Germanic Philology.

Middle High German Literature.

SELECTED UNDERGRADUATE COURSES

- [301. *Introduction to Germanic Philology.*]
- 302. *German Language and Literature of the Middle Ages:*
Mr. Shetter.
- [303. *The Classics of the Nineteenth Century:* Mr. Schmidt.]
- 304. *Modern German Literature:* Mr. Schmidt.
- [305a. *The German "Novelle":* Mr. Schmidt.]
- [306. *The German Drama:* Mr. Schweitzer.]
- [307b. *German Poetry:* Mr. Schmidt.]
- 308. *Introduction to Linguistics:* Mr. Shetter.

Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D. MABEL L. LANG, PH.D., <i>Chairman</i>
INSTRUCTOR:	T. LESLIE SHEAR, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

SEMINARS AND GRADUATE COURSES

Miss Lang:

Athenian Historiography.

Mr. Lattimore:

Athenian Tragedy.

SELECTED UNDERGRADUATE COURSES

201. *Thucydides and Tragedy*: Mr. Shear.

301. *Lyric Poetry and Comedy*: Mr. Lattimore.

History

PROFESSOR:

CAROLINE ROBBINS, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS:

CHARLES M. BRAND, PH.D.

MARY MAPLES DUNN, PH.D.

BARBARA M. LANE, PH.D.

ALAN SILVERA, PH.D.

VISITING LECTURER:

IVAN L. RUDNYTSKY, PH.D.

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON

BROUGHTON, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be able to read Latin. Those planning work in Modern European

History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Mr. Broughton: *Ancient History.*

Mediaeval and Renaissance History

Mr. Brand: The First Crusade.

British History

Miss Robbins: Topics in the History of the Period 1649-1875.

Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.

American History

Mrs. Dunn: Topics in Colonial and Early National History.

Mr. Dudden: Topics in the History of the United States.

Modern European History

Miss Robbins: Eighteenth Century Life and Thought.

Mrs. Lane: Topics in the History of the Twentieth Century.

Mr. Silvera: The French Third Republic.

Mrs. Dunn: Historical Method, Semester I.

Miss Robbins: Great Historians, Semester II.

Journal Club. Faculty and students of the Department, and occasionally members of the Departments of Economics and Political Science, meet four or five times a year to discuss research in progress, or recent books and projects, or to entertain visiting scholars.

SELECTED UNDERGRADUATE COURSES

301. *Europe in the Twentieth Century:* Mrs. Lane.

303. *Recent History of the People of the United States of America:* Mr. Dudden.

304a. *The Victorians:* Miss Robbins.

[305. *Renaissance and Reformation:* Mrs. Lane.]

[306a. *The Enlightenment:* Miss Robbins.]

307a. *Age of Revolution:* Mrs. Dunn.

History of Art

PROFESSOR:

CHARLES MITCHELL, M.A., B.LITT.,
Chairman

ASSOCIATE PROFESSOR:

JAMES E. SNYDER, M.F.A., PH.D.

ASSISTANT PROFESSOR:

ANNE COFFIN HANSON, PH.D.

INSTRUCTOR:

STEPHEN PEPPER, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Program for the M.A. This consists of (a) three units of graduate work, one of which may be in an allied field; (b) an extended paper on a topic chosen in consultation with the Department; (c) a Final Examination (written or written and oral) to test the candidate's ability to place the topic chosen under (b) in the general context of the history of art.

Program for the Ph.D. Prime emphasis is placed on a program of research leading to a dissertation. A Preliminary Examination in four art-historical subjects (or in three art-historical subjects and one allied subject), consisting of four written papers and an oral examination, must be satisfactorily completed.

Allied Subjects. To be determined in consultation with the Department, according to the needs of the individual research program.

Prerequisites. The normal prerequisite for admission is a training in art history, but students with special abilities, or sound training in cognate disciplines, are also admitted.

Languages. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian.

SEMINARS AND GRADUATE COURSES

Mr. Mitchell:

Problems of Antique Survival and Revival.

Mr. Snyder:

The Apocalypse in Art.

Mrs. Hanson:

Early Renaissance Italian Sculpture.

SELECTED UNDERGRADUATE COURSES

300a. *Texts for Art Historians:* Mr. Mitchell.

311a. *The Early Christian Basilica:* Mr. Snyder.

314b. *Art in Europe and America since 1945:* Mr. Pepper.

321b. *Burgundian Court Art:* Mr. Snyder.

History of Religion

ASSOCIATE PROFESSOR
OF PHILOSOPHY:

JEAN A. POTTER, PH.D.

INSTRUCTOR:

DOROTHY CORBETT, M.A.

Appointment to be announced.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major Department.

UNDERGRADUATE COURSES

- 101b. *History of Christian Thought*: Miss Corbett.
- [103. *Literary History of the Bible*.]
- 201a. *History of Ancient Israel*: Miss Corbett.
- 201b. *Christian Beginnings*: Miss Corbett.
- 202. *Man and His Religions*: Miss Corbett.
- 203a. *Philosophy of Religion*: Miss Potter.
- This course is also listed as Philosophy 203.
- 203b. *Mediaeval Philosophy*: Miss Potter.

Italian

PROFESSOR:

ANGELINE H. LOGRASSO, PH.D.,
Chairman

ASSISTANT PROFESSOR:

BERNARD TOSCANI, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

Language Requirements. French and German. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of one of the following: a three-hour written examination and an oral examination of one hour, a written examination of from four to six hours, or an oral examination of not less than one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

Old Italian.

Provençal.

Dante.

The Renaissance.

Literary Criticism.

Manzoni.

Romanticism.

The Thought of Luigi Sturzo.

SELECTED UNDERGRADUATE COURSES

- [201. *Classics in Italian Literature:* Miss Lograsso.]
- 202. *Dante:* Miss Lograsso.
- [302c. *The Italian Language:* Miss Lograsso.]
- [303. *Italian Literature of the Rinascimento:* Miss Lograsso,
Mr. Toscani.]
- 304. *Italian Literature of the Romantic Period:* Miss Lograsso, Mr. Toscani.

Latin

PROFESSORS:	THOMAS ROBERT SHANNON BROUGHTON, PH.D. AGNES KIRSOPP MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	MYRA UHLFELDER, PH.D.
INSTRUCTOR:	T. LESLIE SHEAR, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

Language Requirements. French and German. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination all candidates must pass a rigorous examination in Latin sight translation. Candidates who offer Greek as an allied field must pass a rigorous examination in Greek sight translation. Candidates who do not offer Greek as an allied field must pass an examination to test their ability to read Greek at sight

before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton:

The Augustan Empire.

Cicero's Correspondence.

History and Literature of the Second Century B.C.

Latin Inscriptions.

Mrs. Michels:

Augustan Poetry.

Lucretius and Catullus.

The Works of Vergil.

Roman Rhetoric: Theory and Practice.

Latin Literature of the Silver Age.

Miss Uhlfelder:

History of Classical Scholarship.

Latin Palaeography and Textual Criticism.

Latin Literature of the Early Mediaeval Period.

Latin Literature of the Twelfth Century.

SELECTED UNDERGRADUATE COURSES

301a. *Vergil's Aeneid*: Mrs. Michels.

301b. *Tacitus and Livy*: Mr. Broughton.

[302a. *Cicero and Caesar*: Mr. Broughton.]

[302b. *Lucretius*: Miss Uhlfelder.]

Mathematics

PROFESSORS:	JOHN C. OXTOBY, M.A., <i>Chairman</i> MARGUERITE LEHR, Ph.D. ¹
ASSOCIATE PROFESSOR:	FREDERIC CUNNINGHAM, JR., Ph.D.
ASSISTANT PROFESSOR:	ETHAN D. BOLKER, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. and Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

1. On sabbatical leave for the year, 1964-1965.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Cunningham:

Functional Analysis.

General Topology.

Linear Spaces.

Theory of Functions.

Miss Lehr:

Abstract Algebra.

Differential Geometry.

Probability Theory.

Projective Spaces and Lattice Theory.

Mr. Oxtoby:

Ergodic Theory.

Mathematical Physics.

Measure Theory.

Point Set Topology.

Theory of Functions.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus:* Mr. Cunningham.

303. *Introduction to Abstract Algebra:* Mr. Bolker.

[304a. *Theory of Probability:* Miss Lehr.]

[305b. *Topics in Differential Geometry:* Miss Lehr.]

[310. *Theory of Functions of a Complex Variable:* Mr. Oxtoby.]

[311b. *Differential Equations:* Mr. Cunningham.]

312. *Topology:* Mr. Cunningham.

Mediaeval Studies

PROFESSOR OF GEOLOGY:	DOROTHY WYCKOFF, PH.D.
PROFESSOR OF HISTORY OF ART:	CHARLES MITCHELL, M.A., B.LITT.
PROFESSOR OF ITALIAN:	ANGELINE HELEN LOGRASSO, PH.D.
PROFESSOR OF PHILOSOPHY:	JOSÉ MARÍA FERRATER MORA, <i>Lic.F.L.</i>
VISITING PROFESSOR OF FRENCH:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSOR OF PHILOSOPHY:	JEAN A. POTTER, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR OF HISTORY OF ART:	JAMES E. SNYDER, PH.D.
ASSOCIATE PROFESSOR OF LATIN:	MYRA UHLFELDER, PH.D.
ASSISTANT PROFESSOR OF ENGLISH:	ROBERT B. BURLIN, PH.D.
ASSISTANT PROFESSOR OF HISTORY:	CHARLES BRAND, PH.D.

Graduate work in the mediaeval field may be done in either of two ways: (a) under a particular department, e.g., History, Latin, History of Art or one of the language and literature departments, in which case students come under the regulations of the department concerned; or (b) under the Mediaeval Studies Committee, as listed above, in which case students work for a degree specifically in Mediaeval Studies according to the following plan:

Prerequisites. An undergraduate major in any of the fields listed in the paragraphs under major and allied subjects.

Major and Allied Subjects. Any literature ancient, mediaeval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, French and German. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to the examination. The examination may be either written (four hours) or written and oral (three hours—one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, consisting of several examinations, written and oral, will be required.

SEMINARS AND GRADUATE COURSES: (See under the various departments).

Music

PROFESSOR AND DIRECTOR OF
THE CHORUS:

ROBERT L. GOODALE, B.Mus.,
A.A.G.O., *Chairman*

PROFESSOR AND DIRECTOR OF
ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.

LECTURER:

ISABELLE CAZEAUX, Ph.D.

DIRECTOR OF ORCHESTRA:

WILLIAM H. REESE, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28–34)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which

at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The oral examination covers the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Cazeaux:

Mediaeval and Early Renaissance Music: a Study of Style and Paleography.

Music of the Late Renaissance and Baroque.

Mr. Goodale:

Music of the Twentieth Century.

Theory and Analysis.

Mme Jambor:

The Interpretation of Music.

Mr. Alwyne:

The Music of England.

The Nineteenth Century.

SELECTED UNDERGRADUATE COURSES

- 201. *The Romantic Period*: Miss Cazeaux.
- 202. *Advanced Theory and Analysis*: Mr. Goodale.
- 203c. *Bach*: Mme Jambor.
- 204c. *The Classical Period*: Mme Jambor.
- 205b. *The History of Music Criticism*: Miss Cazeaux, Mme Jambor.
- 301a. *Opera and Music Drama*: Miss Cazeaux.
- 301b. *Contemporary Music*: Mr. Goodale.
- [302a. *Mediaeval and Early Renaissance Music*: Miss Cazeaux.]
- [302b. *Late Renaissance and Baroque Music*: Miss Cazeaux.]
- [303a. *Orchestration*: Mr. Goodale.]
- [303b. *Russian Music*: Mr. Alwyne.]
- 304a. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.
- 305. *Free Composition*: Mr. Goodale.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to graduate students. Participation by students in the Department in one or more of these organizations is strongly urged.

Philosophy

- PROFESSORS: MILTON CHARLES NAHM, B.LITT.,
PH.D., *Chairman*
JOSÉ MARÍA FERRATER MORA, *Lic.F.L.*
HUGUES LEBLANC, PH.D.
ISABEL SCRIBNER STEARNS, PH.D.
- ASSOCIATE PROFESSORS: GEORGE L. KLINE, PH.D.¹
JEAN A. POTTER, PH.D.
- LECTURER: ROBERT E. GAHRINGER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

1. On leave of absence, semester I, 1964-1965.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: Another field of Philosophy and subjects in most fields of the humanities, mathematics, and natural and social sciences.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Nahm:

Aesthetics.

A systematic and historical analysis of problems in the philosophy of art.

Ethics.

A study of Plato's and Aristotle's ethical theories.

Kant.

A study of the *Critique of Judgment* and the *Critique of Practical Reason*.

Miss Stearns:

Epistemology.

An historical and systematic study of the function of reason and other agencies in knowledge.

Metaphysics.

A study of such problems as time, the one and the many, the individual, appearance and reality.

Plotinus.

A detailed study of the *Enneads*.

Mr. Leblanc:

Deductive Logic.

A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Inductive Logic.

A study of statistical and inductive probabilities, of current methods for testing hypotheses and making estimates, and, more generally, of induction. Prerequisite: Deductive Logic.

Philosophy of Mathematics and Sciences.

A study of current trends and issues in the philosophy of mathematics and sciences. Prerequisite: Deductive Logic.

Mr. Ferrater Mora:

History of Philosophic Concepts.

The origin and development of philosophic concepts, with particular attention to meanings and changes of meaning throughout history.

Kant and Post-Kantian German Idealism.

A close study of the *Critique of Pure Reason* and of some of the main philosophical problems which were encountered by post-Kantian thinkers.

British Empiricism.

A close examination of John Locke's philosophy, to be followed by a study of Locke's influence upon Berkeley and Hume.

Miss Potter:

Mediaeval Philosophy.

Studies in selected problems and texts in mediaeval philosophical thought.

[Mr. Kline:

Hegel.

An intensive study of the *Phenomenology of Mind*.]

Mr. Gahringer:

Systematic Ethics.

A study of related topics bearing on the nature and authorization of moral principles and the structure of practical reason.

Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

SELECTED UNDERGRADUATE COURSES

- 201a. *German Idealism*: Mr. Ferrater Mora.
- 201b. *Recent Metaphysics*: Miss Stearns.
- 202a. *Logic*: Mr. Leblanc.
- 203b. *Mediaeval Philosophy*: Miss Potter.
- 205b. *Hegel*: Mr. Kline.
- 301a. *Aesthetics*: Mr. Nahm.
- 301b. *Theory of Knowledge*: Mr. Leblanc.
- 302a. *Plato*: Miss Stearns.
- 302b. *Philosophy of History*: Mr. Ferrater Mora.
- 303a. *Descartes and Spinoza*: Miss Potter.
- 303b. *Texts in Mediaeval Philosophy*: Miss Potter.
- 304b. *Political Philosophy*: Mr. Gahringer.

Physics

PROFESSORS:

WALTER C. MICHELS, PH.D., *Chairman*ROSALIE C. HOYT, PH.D.¹

JOHN R. PRUETT, PH.D.

ASSISTANT PROFESSOR:

W. PAUL GANLEY, PH.D.

LECTURER:

MARK PHILLIP KLEIN, PH.D.

Special Requirements for Graduate Work.
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Graduate Record Examination.

Allied Subjects. Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology, or Geology if their mathematical training is accepted as adequate for their work in Physics.

Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

1. On sabbatical leave for the year, 1964-1965.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demon-

strated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

SEMINARS

Two or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr. Michels, Mr. Pruett, Mr. Ganley.

Theoretical Physics

Mr. Michels:

1964-65. *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Klein.

1964-65: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Mr. Pruett:

1965-66: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Mr. Michels:

1965-66: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Miss Hoyt:

1966-67: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

- 201a. *Electricity and Magnetism*: Mr. Pruett.
- 202b. *Optics*: Mr. Ganley.
- 301a. *Classical Mechanics*: Mr. Klein.
- 303b. *Thermal Properties of Matter*: Mr. Klein.
- 304. *Introduction to Theoretical Physics*: Mr. Pruett.
- 305c. *Physical Measurements*: Mr. Michels, Mr. Ganley.
- [351. *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSORS:	GERTRUDE C. K. LEIGHTON, A.B., LL.B. <i>Chairman</i>
	PETER BACHRACH, PH.D. ¹
ASSOCIATE PROFESSOR:	MELVILLE T. KENNEDY, JR., PH.D. ¹
ASSISTANT PROFESSOR:	CHARLES E. FRYE, PH.D.
LECTURERS:	PAUL R. BRASS, PH.D. ALICE F. EMERSON, PH.D.

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

1. On sabbatical leave for the year, 1964-1965.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Philosophy and Theory, Western Comparative Politics, Non-Western Comparative Politics, American Political Process, American Constitutional Law and International Politics and Law. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. Two modern languages.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

SEMINARS

Mr. Brass:

Research Problems in Modern Indian Politics.

[*Problems in Asian International Relations.*]

[*Topics in Chinese Political and Social Development, from 1911 to 1949.*]

Mrs. Emerson:

American Constitutional Law.

[*Topics in American Political Theory.*]

[*American National Politics.*]

Mr. Frye:

European Comparative Politics.

Miss Leighton:

World Community and Law.

Journal Club. Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

- 301a. *Law and Society*: Miss Leighton.
- 302b. *Law, Policy and Personality*: Miss Leighton.
- 303a. *Problems in International Politics*: Mr. Brass.
- 304b. *West European Integration*: Mr. Frye.
- [305a. *Introduction to Latin American Politics*: Mrs. Marshall.]
- [306b. *The Problem of Power in Contemporary Society*:
Mr. Bachrach, Mr. Baratz.]
- [308b. *American Political Theory*: Mr. Bachrach.]
- 309b. *Selected Topics in Modern Political Thought*: Mr. Frye.
- 310b. *Comparative Political Parties*: Mr. Brass.

Psychology

PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i>
	RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	ROBERT SIMON DAVIDON, PH.D.
	RICHARD CHARLES GONZALEZ, PH.D.
	HARRY STEPHEN UPSHAW, PH.D.
LECTURERS:	KATHRYN ELINOR KOENIG, PH.D.
	WILLIAM R. A. MUNTZ, D. PHIL.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, and Sociology. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics and Experimental Design.) Candidates for the Ph.D. must pass examinations in two of the three languages.

Program and Examinations for the M.A. The program of work must include three units (six one-semester courses or seminars), which usually will be chosen from the group of courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics and Experimental Design. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each candidate must pass the final examination in each of the eight courses listed below. The Preliminary Examination consists of three written papers in areas of specialization chosen by the student with the approval of the Department. A doctoral dissertation presenting the results of independent investigation must be prepared and published. The Final Oral Examination deals with the dissertation and the field in which it has been written.

GRADUATE COURSES AND SEMINARS

The graduate courses which are regularly offered are listed below. In addition, advanced seminars are offered on specialized problems of mutual interest to faculty and students.

Mr. Bitterman:

Comparative Psychology.

Mr. Davidon:

Measurement.

Perception.

Mr. Gonzalez:
Human Learning and Thinking.

Miss Koenig:
Personality.

Mr. Muntz:
Physiological Psychology.

Mr. Upshaw:
Social Psychology.
Statistical Method.

SELECTED UNDERGRADUATE COURSES

- 201a. *Comparative Psychology*: Mr. Bitterman.
- 202b. *Psychological Testing*: Miss Koenig.
- 203b. *Learning and Thinking*: Mr. Gonzalez.
- 204a. *Experimental Methods and Statistics*: Mr. Davidon.
- 205b. *Perception*: Mr. Davidon.
- 301b. *Physiological Psychology*: Mr. Muntz.
- 302a. *Psychology of the Normal Personality*: Mr. Upshaw.
- 303a. *Advanced Social Psychology*: Mr. Upshaw.
- 304b. *Psychology of the Abnormal Personality*: Mrs. Cox.
- 307a. *History of Psychology*: Mr. Davidon.

Russian

PROFESSOR:	FRANCES DE GRAAFF, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. KLINE, PH.D. ¹
ASSISTANT PROFESSORS:	IRENE NAGURSKI, PH.D.
	RUTH C. PEARCE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

1. On leave of absence, semester I, 1964-1965.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. French and German. In special cases the Department may accept other languages.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian.

Pushkin and Lermontov.

The Russian Drama.

Mr. Kline:

Russian Critics of the Nineteenth Century.

Poets of the Twentieth Century.

Mrs. Pearce:

History of the Russian Language.

Old Church Slavonic.

SELECTED UNDERGRADUATE COURSES

201. *Readings in Russian Literature.*

206. *History of Russia:* Mr. Rudnytsky.

302. *Pushkin and His Time:* Miss Nagurski.

[303. *Russian Literature of the Twentieth Century:*
Mr. Kline.]

Social Work and Social Research

*The Carola Woerishoffer Graduate Department
of Social Work and Social Research*

PROFESSORS:	KATHERINE D. K. LOWER, PH.D., <i>Director of the Department</i> BERNARD ROSS, M.S.S.A., PH.D.
ASSOCIATE PROFESSORS:	LOUIS GOLDSTEIN, PH.D. JEAN HARING, M.A., M.S.W. PHILIP LICHTENBERG, PH.D. JEANNE POLLOCK, M.S.W. KURT REICHERT, PH.D. MARTIN REIN, M.S.S.W., PH.D.
ASSISTANT PROFESSORS:	PATRICIA MILLAR BURLAND, M.S.S. JANE COLLIER KRONICK, PH.D. WILLIAM W. VOSBURGH, PH.D. GRETA ZYBON, M.S.W.
LECTURER:	RUTH O. STALLFORT, M.S.
INSTRUCTORS:	L. DIANE BERNARD, M.S.S. M. SUSAN BRUBAKER, M.S.W. ELIZABETH L. PINNER, M.S.W.

PROFESSOR OF EDUCATION AND PSYCHOLOGY:	RACHEL D. COX, PH.D.
PROFESSOR OF SOCIOLOGY:	EUGENE V. SCHNEIDER, PH.D.
ASSISTANT PROFESSOR OF EDUCATION:	ETHEL W. MAW, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Bryn Mawr awards the degrees of Doctor of Philosophy and Master of Social Service in the Department of Social Work and Social Research. The prerequisites and program required for the degree of Master of Social Service are described on page 33. The statement here refers to the Ph.D. in Social Work and Social Research.

The curriculum includes the following areas of study: Social Welfare, Theory in Social Work Practice, Social and Behavioral Sciences, and Social Research.

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives that are considered pertinent to individual interests, some of which may be taken in other departments within the College or at the University of Pennsylvania; and special experiences that are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. The Research Center of the Department provides special opportunities for social work research. Qualified students may participate in various phases of research in social work under the direction of members of the faculty engaged in the program of the Center.

Prerequisites. Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

Major and Allied Fields. The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is recommended. For the degree, substantial work in Statistics is also required.

Language Requirements. By special action of the faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be obtained by writing to the Director of the Department.

Sociology and Anthropology

PROFESSOR OF

ANTHROPOLOGY: FREDERICA DE LAGUNA, PH.D., *Chairman*

PROFESSOR OF SOCIOLOGY: EUGENE V. SCHNEIDER, PH.D.

ASSISTANT PROFESSOR OF

ANTHROPOLOGY: JANE C. GOODALE, PH.D.

VISITING LECTURER IN

ANTHROPOLOGY: A. IRVING HALLOWELL, PH.D.

LECTURER IN SOCIOLOGY: SEYMOUR LEVENTMAN, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

ANTHROPOLOGY

Prerequisites. A good undergraduate preparation in Anthropology and/or Sociology. Some undergraduate training in History, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students who specialize in Anthropology may be expected to do some work in Sociology and other allied subjects including Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Philosophy, Political Science or Psychology. See also the special requirements for the Ph.D. in Anthropology.

Language Requirements. Candidates for the M.A. or Ph.D. in Anthropology must offer two modern languages.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be taken in Sociology. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with the University of Pennsylvania, see page 27.) The Preliminary Examination will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examination for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) and (3) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major culture area, etc. and (4) an examination in an allied field, such as Sociology or Psychology. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination.

SEMINARS AND GRADUATE COURSES IN ANTHROPOLOGY

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses (1½ unit of credit).

Miss de Laguna:

American Archaeology.

The American Indian: Methods of Ethnography.

Miss Goodale:

Social Organization of Primitive Peoples.

The Culture of Australian Aborigines.

SELECTED UNDERGRADUATE COURSES

203a. *Primitive Culture*: Miss Goodale.

203b. *Primitive Society*: Miss Goodale.

208a. *Human Evolution and Prehistory*: Miss Goodale.

301a, b. *History of Anthropology*: Mr. Hallowell.

304a. *Culture and Personality*: Miss de Laguna.

Students are urged to join the Philadelphia Anthropological Society which meets once a month at the University of Pennsylvania Museum.

SOCIOLOGY

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students will be expected to take some work in allied fields—Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics. In addition courses at the University of Pennsylvania in Sociology or allied fields may be taken for credit.

Language and Statistics Requirements. Candidates for the M.A. must offer one modern language and statistics. Candidates for the Ph.D. must offer two languages; these will be German and French, except in special cases.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to have had, or to take, at least one year's graduate work at another institution approved by the Department, except in special cases. (For exchange arrangements with the University of Pennsylvania, see page 27.)

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field, for instance in Anthropology, Social Psychology, Economics, Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

SEMINARS AND GRADUATE COURSES IN SOCIOLOGY

One seminar a year will be given from among the following:

Sociological Theory.

Sociology of Knowledge.

Social Institutions.

Industrial Sociology.

Theories of Social Change.

Spanish

PROFESSOR:	JOAQUÍN GONZÁLEZ MUELA, <i>D.en F.L.</i>
ASSOCIATE PROFESSOR:	WILLARD FAHRENKAMP KING, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	PHYLLIS TURNBULL, <i>D.en F.L.</i> ¹
INSTRUCTOR:	ELEANOR KRANE PAUCKER, PH.D.

DEAN OF THE COLLEGE:	DOROTHY NEPPER MARSHALL, PH.D.
PROFESSOR OF PHILOSOPHY:	JOSÉ MARÍA FERRATER MORA, <i>Lic. F.L.</i>

Special Requirements for Graduate Work (for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two Romance languages other than Spanish, or one Romance language and German. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin will have to be included in the graduate program.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed as early as possible with the member of the Department with whom the candidate plans to work on the dissertation.

1. On sabbatical leave for the year, 1964-1965.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

[*Galdós* (Semester I and II).]

A detailed study of Galdós as novelist and dramatist against the background of nineteenth-century Spanish history and thought.

[*Ideological Currents in Renaissance Spain*.]

Platonism, Mysticism, Erasmism, and the Counter-Reformation.

[*The Mediaeval Castilian Epic* (Semester I).]

A study of historical and literary problems surrounding the Castilian epic, with particular attention to the *Cantar de Mio Cid*.

[*The Mediaeval Castilian Lyric* (Semester II).]

The origins and development of Castilian lyric poetry. An intensive study will be made of the *Libro de Buen Amor*.

Prose Fiction of the Golden Age.

From *La Celestina* to *El Criticón*.

The Poetry of the Golden Age.

The evolution of Spanish poetry from Garcilaso to Góngora.

[*Problems in the Golden Age Theater*.]

Studies in Modern Spanish Literature.

SELECTED UNDERGRADUATE COURSES

[302a. *Mediaeval Spanish Literature*: Miss Turnbull.]

[303a. *Modern Novel in Spain*: Mrs. King.]

[303b. *Modern Spanish Poetry*: Mrs. King.]

304a. *Drama of the Golden Age*: Mrs. King.

304b. *The Age of Cervantes*: Mrs. King.

How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

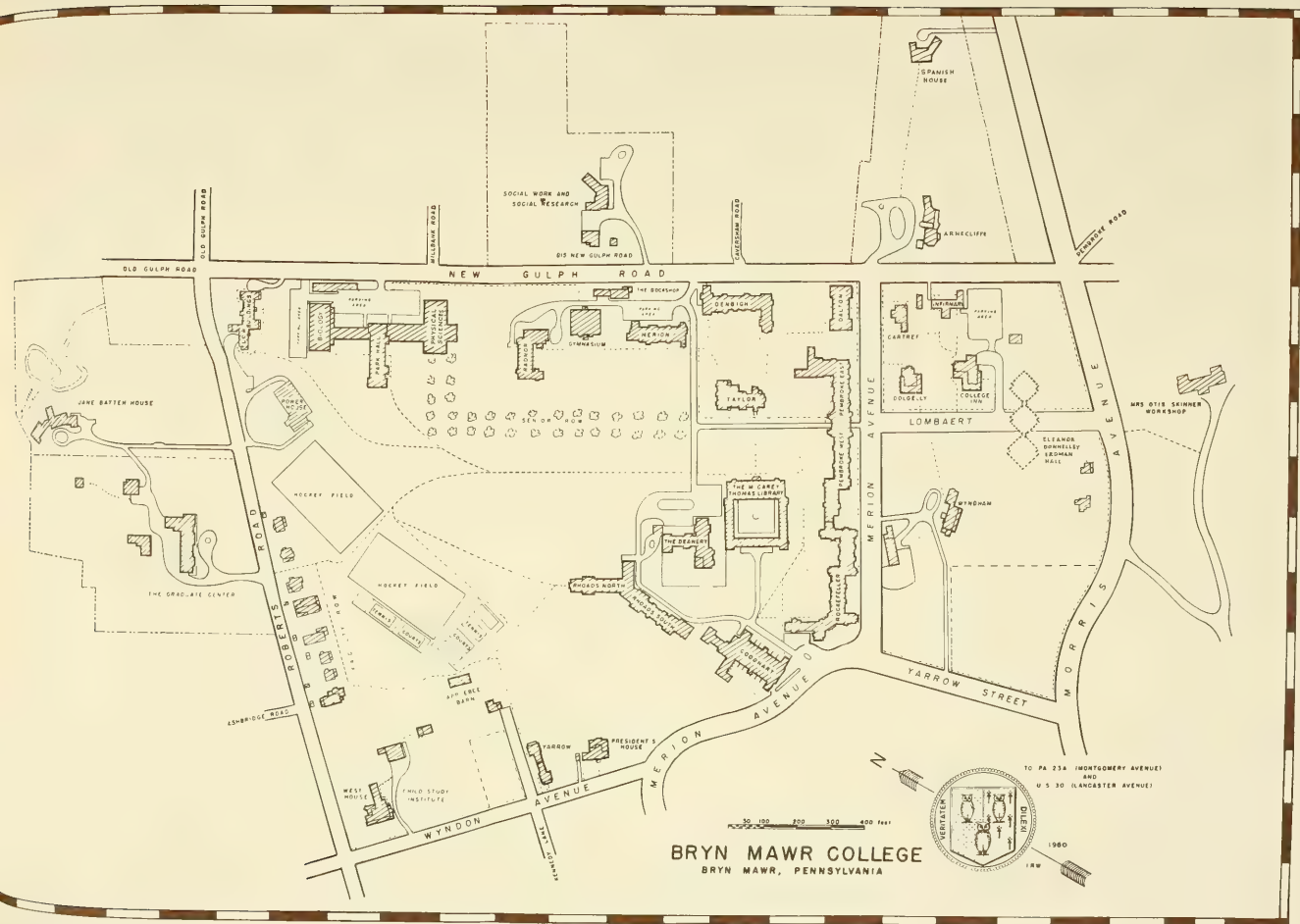
By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked "Ardmore-Chester" on to Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues. Continue for one block to Yarrow Street which borders the campus.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.



BRYN MAWR

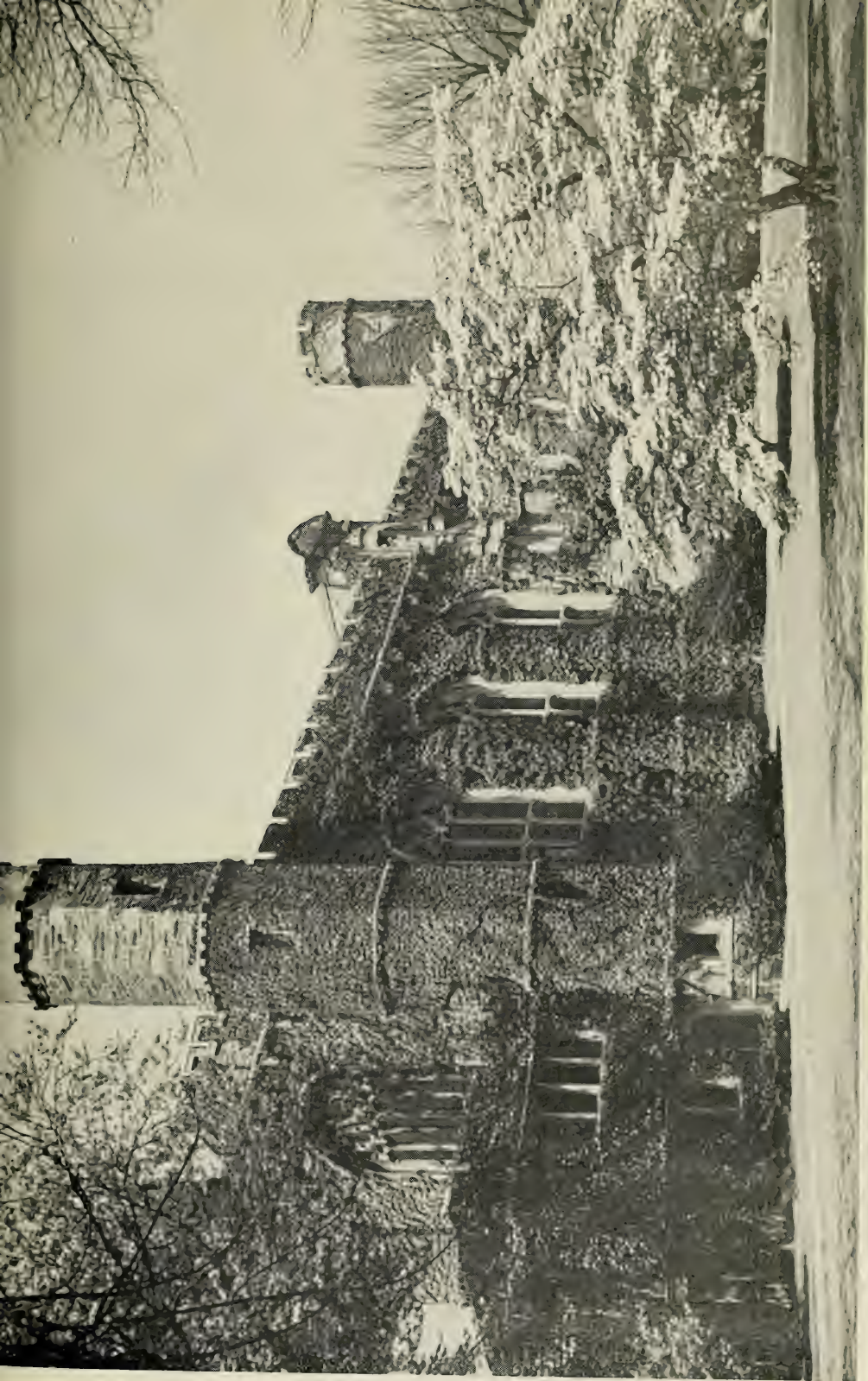
THE GRADUATE SCHOOL 1964-1965

BRYN MAWR

COLLEGE CALENDAR

1964 | 1965

UNDERGRADUATE COURSES



THE M. CAREY THOMAS LIBRARY







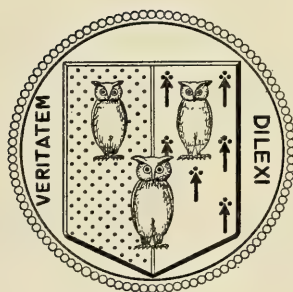
PEMBROKE ARCH

Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1964-1965



AUGUST 1964

Volume LVII

Number 3

VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after mid-September the offices are closed on Saturdays.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional scholarships and loan fund

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

Second Class Postage paid at Bryn Mawr, Pa.

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Academic Schedule

1964-1965

1964

FIRST SEMESTER

- September* 17. Graduate Center opens to resident students
Registration of graduate students
Deferred, condition, auditors' examinations begin
- September* 18. Halls of residence open to entering class at 8 A.M.
Registration of entering undergraduate students
- September* 19. Deferred, condition, auditors' examinations end
- September* 20. Halls of residence open to returning undergraduates at 8 P.M.
- September* 21. Enrollment of returning undergraduate students
- September* 22. Work of the 80th academic year begins at 9 A.M.
- September* 24. Registration period for graduate students ends
- September* 26. English test for foreign graduate students
- October* 10. French examinations for undergraduates
- October* 17. Greek, Latin and Russian examinations for undergraduates
French examinations for graduate students
- October* 24. German examinations for undergraduate and graduate students
- October* 31. Italian and Spanish examinations for undergraduate and graduate students
Russian and Statistics examinations for graduate students
- November* 11. Hygiene examination at 7:30 P.M.
- November* 25. Thanksgiving holiday begins after last class
- November* 30. Thanksgiving holiday ends at 9 A.M.
- December* 16. Christmas vacation begins at 12:45 P.M.

1965

- January* 4. Christmas vacation ends at 9 A.M.
- January* 9. French examinations for Seniors conditioned
Italian and Spanish examinations for Seniors conditioned and for graduate students

- January 15.* Last day of lectures
- January 16.* Greek, Latin and Russian examinations for Seniors conditioned
German examinations for graduate students
- January 18.* College examinations begin
- January 23.* German examinations for Seniors conditioned
French examinations for graduate students
- January 27.* Registration period for graduate students begins
- January 28.* College examinations end

SECOND SEMESTER

- February 1.* Work of the second semester begins at 9 A.M.
- February 3.* Registration period for graduate students ends
- March 26.* Spring vacation begins after last class
- April 5.* Spring vacation ends at 9 A.M.
Deferred examinations begin
- April 10.* Deferred examinations end
German, Greek, Latin and Russian examinations for undergraduates
Italian, Russian and Spanish examinations for Ph.D. candidates and M.A. candidates for 1966
Statistics examinations for graduate students
- April 17.* French examinations for undergraduates, Ph.D. candidates and M.A. candidates for 1966
- April 23-25.* Geology Field Trip
- April 24.* German examinations for Ph.D. candidates and M.A. candidates for 1966
- May 8.* Italian and Spanish examinations for undergraduates
- May 14.* Last day of lectures
- May 17.* College examinations begin
- May 28.* College examinations end
- May 31.* Conferring of degrees and close of the 80th academic year
- June 5.* Alumnae Day

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2. On sabbatical leave for the year, 1964-1965.

3. On leave of absence, semester I, 1964-1965.

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HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

KATHARINE BUDD WHELIHAN, A.B. (Mount Holyoke College), *Assistant to the President*

Library

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), M.A. (Bryn Mawr College), *Librarian, West Wing*

ETHEL W. WHETSTONE, A.B.L.S. (University of North Carolina), *Librarian, Departmental Libraries*

ELIZABETH C. E. GREENALL, M.L.S. (McGill University), *Assistant in Cataloguing Department*

CORNELIA A. TUCKER, M.S.L.S. (Louisiana State University), *Assistant in the Circulation Department*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

N. BATES BUCKNER, A.B. (Bryn Mawr College), *Warden-elect*

JOAN CROWTHER, M.A. (Bryn Mawr College), *Warden of Rhoads Hall*

MARGARET HEALY, M.A. (St. John's University), *Warden of Pembroke West*

JOAN F. HOMER, A.B. (Temple University), *Warden-elect*

SYLVIA KARTSONIS, M.A. (Bryn Mawr College), *Warden-elect*

MARY PATTERSON McPHERSON, M.A. (University of Delaware), *Warden of Pembroke East*

JULIA NASH, M.A. (University of Pennsylvania), *Warden of Denbigh*

HELGA PILLWEIN, B.S. (St. Joseph's College), *Warden of the German House*

MARÍA ROBLEDÓ, A.B. (College of William and Mary), *Warden of the Spanish House*

Health

PEARL S. PITT, M.D. (Columbia University, College of Physicians and Surgeons), *College Physician*

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

GAIL STRATHDEE, B.S. (Tufts University), *Instructor-elect in Physical Education*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),
Director

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

LOUISE BRUNK, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

JEANNE MURRAY, M.S.W. (University of Washington), *Social Caseworker*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

ELI HARMON, M.D. (Tulane University School of Medicine),
Consulting Psychiatrist

JONAS B. ROBITSCHER, M.D. (George Washington University),
Consulting Psychiatrist

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

BONNIE H. LESHNER, A.B. (Bryn Mawr College), *Assistant in Psychology*

Phebe Anna Thorne School

DIANNE H. WARNER, M.A. (University of Michigan), *Director*

CATHERINE SCHWEITZER, M.A. (University of Wisconsin), *Head Teacher*

JOAN FRASER, B.S. (Northwestern University), *Assistant Teacher*

MARY GIBBS SMITH, A.B. (Bryn Mawr College), *Assistant Teacher*

Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. He expressed the "desire that all having any connexion with this Institution shall endeavor to instil into the minds and hearts of the students, the Doctrines of the New Testament as accepted by Friends." As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads.

In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 88 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and

Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all students.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussion on religious subjects, to plan services for worship and to take the responsibility

for giving students an opportunity to pursue and extend their religious interests.

Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large. The Arts Council, independently or with other associations, sponsors work and performances or exhibitions in the arts and *The College News* published weekly and *The Review* published twice yearly welcome the participation of students interested in reporting, editing, and critical or creative writing. The Athletic Association plans the extra-curricular athletic program.

Opportunities for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts are present to each undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. Representatives of the Alumnae Association and Information Chairmen in various sections of the country are glad to interview candidates. Names and addresses may be secured from the Director.

The College admits only candidates for a degree.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in a laboratory science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider applications provided such students have maintained good records and continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 15 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 15 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude and Achievement Tests should be taken in December or January of the senior year in secondary school. If possible, Achievement Tests should be taken in current subjects. Students should usually offer three of the one-hour tests: one in English, one in a foreign language (if studied for two full years or more) and one in Social Studies, Science or Mathematics. A student may, if not carrying three subjects suitable for testing, submit *one* test taken in the junior year. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified late in April of the senior year as to whether or not they will be admitted to the College.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 1025, Berkeley 1, California.

EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the middle of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she must file before October 1, in addition to a regular application, a statement obtained from the College that she is a candidate under the Early Decision Plan.
3. She will be notified by the College by the middle of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the winter of her senior year, and filing an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.
4. A student who has been assured of admission will be asked to make a deposit of \$50 by February 1, if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

ADVANCED PLACEMENT

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements for the A.B. degree.¹ As in the case of summer school work, with the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

The Advanced Placement Tests are given at College Board centers in May.

Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

1. The grade of 5 is required in English and in History.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 27.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

READMISSION

A student who has withdrawn from College is not automatically readmitted. She should make application for readmission to the Director of Admissions not later than April 1 of the year in which readmission is sought.

Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing about 300,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students. So crowded, however, has the Library become, not only in terms of its collections but also for faculty and students depending upon it, that an addition is urgently needed. Studies for this addition are nearing completion.

Haverford and Swarthmore Colleges and the libraries in Phila-

delphia are generous in making their resources available to students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Any student wishing to use another library for material not available at Bryn Mawr must secure from the Bryn Mawr head librarian a letter of introduction stating the subject to be consulted. Cards of identification for the use of the Haverford College Library are obtainable at the Circulation Desk.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various other gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-39, 1946-47) with the Department of Archaeology. She has also given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

LABORATORIES

Laboratories and classrooms for Biology, Chemistry, Geology, Mathematics and Physics are to be found together, for the first time in many years, in the three buildings of the Science Center.

The third building in this complex, the building for the physical sciences, was just completed in the summer of 1964. Laboratories and classrooms for psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building completed in 1958 for the biological sciences. South of Park Hall is the building for the physical sciences which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

A Computing Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment, available for the use of students and faculty of both colleges.

Each of the science departments has its own library including the appropriate scientific journals. The Geology Department also has over 25,000 maps on deposit from the United States Army Map Service. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

LANGUAGE LABORATORY

The Modern Language Departments jointly maintain a Language Laboratory in Dalton Hall. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

Residence

HALLS OF RESIDENCE

There are on the campus eight halls of residence, which provide full living accommodations for from fifty to eighty-five students. In addition there are three smaller halls which constitute language houses for upperclassmen who wish to speak French, German or Spanish. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads.

Eleanor Donnelley Erdman Hall is now being built and will be ready in September 1965 for 130 students. This additional residential space is much needed. It will relieve the crowdedness of the present halls as well as provide space for a limited number of additional students. Until the new building is opened, late applicants who are admitted to Bryn Mawr College should expect to live in temporary quarters.

A college officer, the warden, is in charge of each residence hall. She is a member of the Dean's staff and is herself engaged in teaching or studying for an advanced degree. She is interested in all aspects of each student's welfare and works, as well, with the student officers in each hall.

The College offers a variety of living accommodations including a few suites and a limited number of double rooms. However, most students occupy single rooms. The College provides basic furniture but students supply their own rugs, curtains and any other accessories they may wish.

The maintenance of each hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. No special foods or diets are provided in the halls of residence.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Because of the great demand for rooms married students, except in unusual cases, are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day.

NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library to which college mail and campus notices are sent. Rooms in Goodhart Hall for teas and special occasions are also available on request. The warden of one of the halls of residence is also warden for the non-resident students. In September 1965, the campus center for non-residents will be in rooms especially reserved for them in the Eleanor Donnelley Erdman Residence Hall.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also served on campus at the College Inn.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Dispensary fee of \$15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 40.

Non-Resident Enrolment Fee. A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1. This deposit will be credited against the tuition charge.

Fees

TUITION

THE tuition fee for all undergraduate students, resident and non-resident is \$1550 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about \$3010 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is \$1150, \$1250 or \$1350, according to the size and location of the student's room or rooms. The residence fees are payable as follows:

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

\$1350—payable \$675 in October, \$675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of \$50 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by July 15 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by July 15, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

SUMMARY OF MAJOR EXPENSES

For resident students, tuition and residence: \$2700, \$2800, or \$2900 according to the type of accommodation.

For non-resident students, tuition: \$1550.

Minor Fees and Charges

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week	25.00	
Three courses of more than 2 hours a week	30.00	
Graduation fee (payable in the senior year)	20.00	
Health Insurance (Students' Reimbursement Plan)	15.00 a year	
Dispensary fee for non-resident students	15.00	

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.

General Information

STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and the Assistant Deans serve as class advisers and are responsible for the administration of the scholarship program. The wardens of residence halls, members of the Dean's staff, also are ready to advise and assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in a booklet, "Academic Rules for Undergraduates," given to each freshman. All students are responsible for knowing the rules thoroughly. Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or the Assistant Dean.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept, except where an instructor has requested that attendance be taken. Each instructor will make clear his view concerning absence from class.

Students are required to sign attendance sheets at the last class before and the first class after each vacation.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program, including periodic physical examinations and regular work during the first two years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students

receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full staff of physicians and nurses. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July 1. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest X-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every student with a health problem will be examined by the College Physician upon entering College and as often thereafter as necessary. Every undergraduate is examined by the College Physician in her senior year. A student who at any time is found not to be in good health is required to follow the special regimen prescribed by the College Physician, including any necessary limitations on academic or extracurricular activities.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the College physicians during this time and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for

each day in the Infirmary after the seven-day period is nine dollars. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$15, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE EDUCATION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under the Bryn Mawr Trust Company. The cost of a one- or two-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for three- or four-year contracts. All contracts include the benefit of parent life and total and permanent disability insurance.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually or through their own family policies.

Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. These requirements may be met by (a) completing successfully an appropriate course at Bryn Mawr, (b) presenting the appropriate Advanced Placement Test of the College Entrance Examination Board with an honor grade,¹ or, (c) in exceptional circumstances, completing with a grade of at least C a summer school course approved in advance by the department concerned and by the Dean. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school,² or, by passing with an honor grade an Advanced Placement Test, (2) passing examinations offered by the College every spring and fall, or, (3) passing with a grade of at least 70 a college course above the elementary level before the Senior year.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathe-

1. The grade of 5 is required in English and in History.

2. Students admitted under the Early Decision Plan may offer tests taken in the junior year in high school.

matics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. The departments of Education and History of Religion offer elective work which may be allied with certain major subjects but no separate majors.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of $15\frac{1}{2}$ units of work for the A.B. degree is distributed as follows: $4\text{--}5\frac{1}{2}$ units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, required of all students. The remaining units ($3\text{--}4\frac{1}{2}$) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the information of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors $3\frac{1}{2}$, including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

The plan for the curriculum may be outlined as follows:

I. A total of at least $15\frac{1}{2}$ units of work must be presented by all candidates for the A.B. degree. The total usually represents $14\frac{1}{2}$ regular courses and the unit of preparation for the Final Examination in the major subject which takes the place

of an additional advanced course. One or two departments do not permit the unit of preparation to substitute for a course but require it as additional independent work.

II. Unless the student has been exempted by means of Advanced Placement, the $14\frac{1}{2}$ units of course work must include the following:

1. The course for Freshmen in English Composition.
2. A course in literature to be chosen from the courses designated as appropriate by the departments of English, French, German, Greek, Italian, Latin, Russian and Spanish.
3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.
4. The course in History of Philosophic Thought.
5. A course in social science to be chosen from offerings in Economics, History, Political Science, Psychology, Sociology or Anthropology.
6. Although no specific course or courses are required, each student must demonstrate a knowledge of two foreign languages. (See page 41.)

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least $15\frac{1}{2}$ units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:
 - a. At least three and usually four courses in the major field. Of these one or two must be second-year courses, and one must be advanced.
 - b. The remaining courses to be chosen among the courses listed by the major departments as acceptable for allied work.
2. One unit of preparation for the Final Examination in the major subject. One or two departments do not permit the

unit of preparation to substitute for a course but require it of their majors as additional independent work. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work making up the required total of $15\frac{1}{2}$ are devoted to elective courses. Students may choose freely any courses which do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 29)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

b. Physical Education

All students must meet the requirement in Physical Education, consisting of work taken throughout the freshman and sophomore years (see page 119).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

3. Full Program of Work—With few exceptions, all students carry a complete program and no student may spend more than the equivalent of the four undergraduate years in completing the work for the A.B. degree.

PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution

giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level, the exception being the new course 102, *Introduction to Chemistry and Physics*. For students who have progressed to the

more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Three small residence halls serve as language houses for upper-classmen who wish to speak French, Spanish or German. Sophomores, juniors or seniors who wish to live in a language house should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

INSTITUT D'ETUDES FRANÇAISES D'AVIGNON

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open also to undergraduate men and women from other colleges. The *Institut* director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

INSTITUTO DE ESTUDIOS HISPANICOS

Bryn Mawr College offers a summer program of intensive work held in Madrid, Spain. The program, under the direction of a member of the Department of Spanish, is open to men and women students from other colleges. The instructors are members of college and university staffs who are familiar with teaching standards and practices in this country.

Courses are offered both for the student whose interest is Spain and for the student who wishes to specialize in Latin American

affairs. Students live with Spanish families. All participate in study trips and attend an excellent series of carefully planned lectures and cultural events. Applicants must have strong academic records and must have completed the equivalent of three years of college-level Spanish. For information students should consult Dr. Phyllis Turnbull of the Department of Spanish. A modest number of scholarships is available each year. The *Instituto* was made possible by a grant from the Henry L. and Grace Doherty Charitable Foundation of New York.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar College or Smith College; in Geneva, Florence, Hamburg, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country where they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for one quarter to one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.

Courses of Study

1964-1965

Key to Course Numbers and Symbols

1, 2, 3indicate elementary and intermediate courses.
*With the exception of Greek 1 and Russian 1
these courses are not part of the major work.*

101, 102, etc.indicate first-year courses in the major work.

201, 202, etc.indicate second-year courses in the major
work.

301, 302, etc.indicate advanced courses in the major work.

*indicates elective courses, open to all students
without prerequisite unless a specific pre-
requisite is stated.

athe letter "a," following a number, indicates
a half-course given in the first semester.

bthe letter "b," following a number, indicates
a half-course given in the second semester.

cthe letter "c," following a number, indicates
a half-course given two hours a week
throughout the year.

[]Square brackets enclosing the title of courses
indicate that these courses are not given in
the current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Biology

PROFESSORS:	MARY S. GARDINER, PH.D., Chairman
	L. JOE BERRY, PH.D.
	JANE M. OPPENHEIMER, PH.D.
DEAN OF THE GRADUATE SCHOOL AND PROFESSOR:	ELEANOR A. BLISS, SC.D.
ASSOCIATE PROFESSOR:	ROBERT L. CONNER, PH.D.
LECTURER:	JANE R. McCONNELL, PH.D.
ASSISTANTS:	TOBY K. EISENSTEIN, A.B.
	EVE L. MACDONALD, A.B.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201, 202 and 203; at least one advanced course and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. Interdepartmental 203: *The Development of Scientific Thought* will also be accepted as allied work. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department.

101. *General Biology*: Mr. Berry, Mr. Conner, Miss Oppenheimer, Miss Gardiner. Laboratory: Mrs. McConnell and assistants.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours per week.

201. *The Biology and Physiology of Vertebrates*: Miss Oppenheimer, Mr. Berry.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

202. *Invertebrate Biology and Cellular Physiology*: Miss Gardiner, Mr. Conner.

A survey of the anatomy and natural history of the invertebrates and a study of the functional problems met by living systems and of the mechanisms by which these are solved. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202 (may be taken concurrently).

- 203b. *Introduction to Genetics*: Miss Gardiner.

A survey of the development of modern genetic theories. Lectures three hours per week in one semester only. Open to students who have completed Biology 101.

- [301. *Theories of Inheritance*: Miss Gardiner.]

A study of the various theories of inheritance leading to modern concepts of heredity in organisms. This may be taken concurrently with Biology 202. Lectures two hours, laboratory six hours (minimum) per week.

302. *Developmental Physiology*: Miss Oppenheimer.

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours (minimum) per week. This may be taken concurrently with Biology 202.

303. *Physiology of Micro-organisms*: Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours per week. Prerequisite: Biology 202, Chemistry 202.

305. *Biochemistry*: Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours per week. Prerequisites: Chemistry 202, Biology 202; except by permission of the Department. Physics 101 is recommended. This course may be taken without laboratory by students concurrently taking Chemistry 203, an advanced course in Chemistry or doing Honors in Biology. Credit one-half unit.

FINAL EXAMINATION: The final examination consists of two four-hour examinations covering the areas of study of the four years of undergraduate work, and the material of the reading assigned in preparation for it. Both these examinations are required of all students majoring in Biology.

HONORS WORK: Honors work in any of the advanced fields is offered to qualified students.

Chemistry

PROFESSORS:

ERNST BERLINER, PH.D.,
Chairman

GEORGE L. ZIMMERMAN, PH.D.

ASSOCIATE PROFESSORS:

FRANK B. MALLORY, PH.D.

JOSEPH VARIMBI, PH.D.¹

ASSISTANT PROFESSOR:

JAY M. ANDERSON, PH.D.

LECTURERS:

FRANCES BONDHUS BERLINER, PH.D.

MARIAN PARISEAU, PH.D.

ASSISTANTS:

DAVID B. ARNOLD, B.S.

THOMAS COLMAN, B.S.

MICHAEL HOFFMAN, B.S.

SARA MILLER, M.S.

JOHN RANISESKI, M.S.

UN-JIN P. ZIMMERMAN, PH.D.

The major in Chemistry is designed to give the student a

1. On sabbatical leave for the year, 1964-1965.

sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101, all 200 courses and one and one-half units of advanced work (exclusive of Chemistry 304a.) Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry:* Mr. Mallory, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

101b. *General Chemistry:* Mr. Berliner, Mrs. Berliner and assistants.

Ionic equilibria and the systematic qualitative analysis of inorganic substances. A study of the metallic elements. Three lectures, three hours laboratory a week.

102. *Introductory Chemistry and Physics:* Mr. Michels, Mr. Zimmerman.

See Interdepartmental Course 102, page 117.

201a. *Quantitative Analysis:* Miss Pariseau.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry:* Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry:* Mr. Anderson.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one

conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

301b. *Inorganic Chemistry*: Miss Pariseau.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302 (a and b). *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second ($\frac{1}{2}$ unit).

303a. *Chemical Thermodynamics*: Mr. Zimmerman.

Two lectures and one conference a week. Laboratory in the second semester only: six hours a week.

303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Zimmerman.

Two lectures and one conference a week. Prerequisite: Chemistry 304a.

304a. *Applied Mathematics for Chemists*: Mr. Anderson.

Two lectures and one conference a week. Prerequisite: Mathematics 201, or the equivalent.

[305b. *Advanced Inorganic Chemistry*: Mr. Varimbi.]

Two lectures a week.

FINAL EXAMINATION: The examination consists of three parts:

- a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry. Each candidate must elect to answer two of the three parts at an advanced level.

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.

Classical and Near Eastern Archaeology

PROFESSOR:	MACHTELD JOHANNA MELLINK, PH.D. <i>Chairman</i>
ASSISTANT PROFESSORS:	KYLE M. PHILLIPS, JR., PH.D. BRUNILDE SISMONDO RIDGWAY, PH.D.
VISITING LECTURER:	PORPHYRIOS DIKAIOS, <i>L. ès L.</i> , D.LITT.

PROFESSOR OF ANTHROPOLOGY:	FREDERICA DE LAGUNA, PH.D.
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The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

REQUIREMENTS IN THE MAJOR SUBJECT: Archaeology 101, 201b, 203, 205b and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

101. *An Introduction to Ancient Art*: Mrs. Ridgway, Mr. Phillips.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and studying its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

201b. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing their origins and the rise of local traditions.

[202a.* *Cultural History of Archaeology*: Miss Mellink.]

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

202b. *Ancient Greek Cities and Sanctuaries*: Mrs. Ridgway.

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on history, religion and mythology connected with each center.

203a. *Greek Sculpture*: Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture*: Mr. Phillips.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

205b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

301a. *Greek Vase-Painting*: Mr. Phillips.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture*: Mrs. Ridgway.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[302a. *The Greek Style in Art*: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

304a. *Ancient Monumental Painting*: Mr. Phillips.

The arts of wall-painting and mosaics in Greece and Italy.

FINAL EXAMINATION: Three examinations on any three of the fields covered by the undergraduate courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three examinations in an allied field.

HONORS WORK: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

EXCAVATIONS: The current excavation project as part of the graduate program of the Department is an investigation of the Bronze Age habitation of Southwestern Anatolia (more specifically ancient Lycia) and will continue in the fall of 1964.

Economics

PROFESSOR:	JOSHUA C. HUBBARD, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D., Chairman
ASSISTANT PROFESSOR:	RICHARD B. DUBOFF, PH.D.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day.

REQUIREMENTS IN THE MAJOR SUBJECT: Economics 101, two units including two half units elected from 201a, 202a and 203b, and a full unit of advanced work. Students are urged to take Mathematics 101 and/or 103 which will count as part of their allied work.

Students may supplement their work in the major with appropriate courses at Haverford.

ALLIED SUBJECTS: Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages.

101. *Introduction to Economics*: Mr. Hubbard, Mr. Baratz, Mr. DuBoff.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the maintenance of economic stability, the provision of social security and international economic relationships.

201a. *Industrial Structure and Market Behavior*: Mr. Baratz.

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises.

[201b. *Western European Economic Development*: Mr. DuBoff.]

Topics in the economic history of Britain, France, Italy and Germany, and the relations among them, are examined, both theoretically and in the light of the empirical evidence.

202a. *Money and Banking*: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy.

202b. *Public Finance and Fiscal Policy*: Mr. Baratz.

A study of local, State and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

203b. *Comparative Economic Systems*: Mr. DuBoff.

An analysis of capitalist, socialist, mixed and communist economic organizations. Theoretical aspects (including free market, Marxist-Leninist and socialist principles) and contemporary cases are studied.

24b. (Haverford College) *Mathematical Economics and the Use of Empirical Data*.

41a. (Haverford College) *Labor Economics and Labor Relations*: Mr. Teaf.

301a. *American Economic Development*: Mr. DuBoff.

Long term trends in output, resources and technology; structure of consumption, production, and distribution; external relations and trade. Quantitative studies provide the points of departure.

301b. *Contemporary Economic Thought*: Mr. Hubbard.

An analysis of economic thought in the twentieth century. The national income, economic growth, fluctuations in economic activity, the determinants in the level of income and employment.

[305a. *Aspects of Latin American Politics and Economics*: Mrs. Marshall, Mr. Baratz.]

See Interdepartmental Course 305a, page 118.

FINAL EXAMINATION: The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:

- a. Money and Banking, including Fiscal Policy
- b. Industrial Structure and Market Behavior
- c. Economic History
- d. The Business Cycle and Full Employment
- e. Labor Economics including Wages and Wage Theory
- f. Comparative Economic Systems

With the permission of the major and allied departments, one examination may deal with an allied subject.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

Education

PRESIDENT OF THE COLLEGE:	KATHARINE ELIZABETH MCBRIDE, PH.D., LL.D., L.H.D., Sc.D.
PROFESSOR AND DIRECTOR, CHILD STUDY INSTITUTE:	RACHEL DUNAWAY COX, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	ETHEL W. MAW, PH.D. DAVID P. NOWLIS, PH.D.
INSTRUCTOR AND DIRECTOR, THORNE SCHOOL:	DIANNE H. WARNER, M.A.
ASSISTANT:	LELIA BRODERSEN, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the freshman year. Work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major if the student very early maps out her course of study. The suggested sequence includes, in the order named, General Psychology, Principles of Teaching, Educational Psychology, Child Psychology or History

and Philosophy of Education, and Principles of Teaching in the Secondary School. The last named course includes supervised practice teaching twelve hours weekly throughout one semester.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a psychological and child guidance clinic supported jointly by the College and the Lower Merion Township Schools. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Space and modern equipment are provided for teaching and research.

[101b. *Principles of Teaching*: Miss McBride.]

The organization and objectives of the school and principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

102b. *History of Education*: Mrs. Maw.

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

[201a. *Educational Psychology*: Mrs. Cox.]

Principles of psychology applied to teaching and learning. Problems of motivation, evaluation and adjustment. Group process and learning. Two hours laboratory per week.

202a. *Child Psychology*: Mrs. Cox.

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101a.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

English

PROFESSORS:

K. LAURENCE STAPLETON, A.B.,
Chairman

MARY KATHARINE WOODWORTH, PH.D.

ASSOCIATE PROFESSORS:

WARNER B. BERTHOFF, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.

ROBERT HAWES BUTMAN, M.A.

ASSISTANT PROFESSORS:

ROBERT B. BURLIN, PH.D.

CATHERINE RODGERS, PH.D.

VISITING LECTURER:

WILLIAM H. MARSHALL, PH.D.

LECTURERS:

JOAN L. KLEIN, PH.D.

ROBERT L. PATTEN, M.A.

INSTRUCTORS:

SANDRA M. BERWIND, M.A.

ELEANOR WINSOR LEACH, PH.D.

PETER J. LEACH, M.F.A.

RAMONA T. LIVINGSTON, A.B.

DORIS QUINN, M.A.

PATRICIA H. RUSSELL, M.A.

To the student planning to major in English the Department offers courses covering all periods of English literature. The

student selects her fields within this broad range and devotes special attention to one period or literary genre.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or 300 or 301, or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, History of Religion, Music, Philosophy, certain courses in Classical Archaeology, Political Science 201(a) and 302 (b), and Interdepartmental 203 (*The Development of Scientific Thought*). Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading:* Mrs. MacCaffrey, Mr. Burlin, Miss Rodgers, Mr. Patten, Mrs. Klein, Mrs. Livingston, Mrs. Berwind, Mrs. Quinn, Mrs. Leach, Mr. Leach, Miss Russell.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance; (d) Themes and Forms in Literature. There will be weekly papers and discussions, and regular conferences.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing:* Mr. Leach.

Practice in various forms of writing, fiction and non-fiction.

Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

211.* *Verse Composition*: Miss Stapleton.

Original verse composition, with a study of the principles of form.

[215a.* *Prose Writing*: Mr. Leach.]

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the permission of the instructor.

306* and 306c.* *Advanced Writing*: Mr. Leach.

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. *Introduction to English Literature*: Miss Rodgers, Mrs. Leach.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *Chaucer*: Mr. Burlin.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Miss Russell.

During the year all the plays are read, and several are studied in detail.

[203. *The Romantic Period*: Mr. Patten.]

English Literature from 1789 to 1832. Attention is centered upon the poets.

204. *The Victorian Period*: Mr. Patten.

Major poets and novelists, the prose of Carlyle, Mill, Ruskin and others. Some attention is given to the drama.

205. *Representative English Novelists*: Mr. Berthoff.

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the eighteenth and nineteenth centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

[206a. *Modern English Drama*.]

The drama from 1865 to the present day.

206b. *Restoration Drama and the Age of Dryden*: Mrs. Klein.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Berthoff.

From the beginnings to the present day.

[212b. *Blake*: Miss Woodworth.]

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

300. *Old English Literature*: Mr. Burlin.

After a brief introduction to the language and some reading of prose, the first term will be devoted to short lyrics and questions of Old English poetic style; the second term, to a careful study of the text and critical problems of *Beowulf*.

301. *Narrative, Plays and Lyrics of the Later Middle Ages*: Miss Rodgers.

Readings in Middle English texts (exclusive of Chaucer) with emphasis on the lyric, the romance, the mystery play and certain contemporaries of Chaucer such as Langland. Attention will also be given to the works of Malory.

[302. *The Sixteenth Century*: Mrs. MacCaffrey.]

Emphasis will be placed on the poetry, beginning with Wyatt, and with special attention to Spenser and the non-dramatic poetry of Shakespeare. There will also be reading in the prose writing and the background of the period.

[303a. *The Drama from the Beginnings to 1642.*]

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

304. *The Seventeenth Century*: Mrs. MacCaffrey.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About half of the time is devoted to Milton, and special attention is given to the thought of the period.

305. *The Eighteenth Century*: Miss Woodworth.

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that of which embraces her special field.
 - a. The Middle Ages (to 1500)
 - b. Later Middle Ages and Early Renaissance (1370-1600)
 - c. The Renaissance (1500-1660)
 - d. Neo-Classicism and Romanticism (1660-1832)
 - e. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on May 3.

French

ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D.
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSORS:	M. PAULINE JONES, PH.D. BERNARD TOSCANI, PH.D.
INSTRUCTOR:	ELLEN S. GINSBERG, PH.D.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A third second-year course is devoted to advanced language training with practice in spoken as well as in written French.

Advanced courses offer detailed study of individual authors, genres and movements. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203c, the use of the Laboratory forms an integral part of the course. French majors find it valuable to supplement the work done at Bryn Mawr by study abroad either during the Junior Year or during the summer at the *Institut* in Avignon. Residence in French house for at least one year is advisable.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101. Occasionally, students with exceptional preparation in French may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French*: Miss Jones, Mrs. Ginsberg.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of French in most courses in school.

2. *Intermediate French*: Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language*: Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800*: Mr. Guggenheim, Mr. Maurin, Miss Jones.

202. *French Literature from 1800 to 1950*: Miss Jones, Mr. Maurin.

203c. *Advanced Training in the French Language*: Mr. Guggenheim, Miss Jones.

[301. *French Lyric Poetry*: Mr. Maurin, Miss Jones.]

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

302. *French Drama*: Mrs. Ginsberg, Miss Jones.

Special study is made of the drama of the seventeenth and twentieth centuries.

303. *The French Novel from 1700 to 1950*: Mr. Maurin, Mr. Guggenheim.

[304. *French Essayists and Moralists*: Mr. Guggenheim, Mr. Maurin.]

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

JUNIOR YEAR ABROAD: Students majoring in French may, by a joint recommendation of the Dean of the College and the

Department of French, be allowed to spend their Junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

SUMMER STUDY: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Études Françaises d'Avignon*, which is held under the auspices of Bryn Mawr College. The *Institut* is designed for selected men and women undergraduates with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,
Chairman

LINCOLN DRYDEN, PH.D.

DOROTHY WYCKOFF, PH.D.

ASSISTANT PROFESSOR:

JEROME REGNIER, PH.D.

ASSISTANT:

RUTH YOUNG BELL, A.B.

The Department seeks to make students more aware of the physical, natural world around them; to teach them how the

present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology*: Mr. Watson, Miss Wyckoff, Mr. Rignier, Mrs. Bell.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology*: Mr. Dryden, Miss Wyckoff, Mr. Rignier.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours of laboratory or field work a week. A three-day field trip is taken in the spring.

[201. *Mineralogy*: Mr. Watson.]

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory a week.

202. *Paleontology*: Mr. Dryden.

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution. Three lectures and three hours of laboratory a week.

301. *Structural and Field Geology*: Mr. Watson.

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

[302. *Stratigraphy*: Mr. Dryden.]

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Mr. Watson, Mr. Regnier.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: 1½ units.

[305. *Geography*: Miss Wyckoff.]

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

[306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the faculty.]

See Interdepartmental Course 203, page 118.

FINAL EXAMINATION: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
 - a. An additional special examination in Geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

German

ASSOCIATE PROFESSORS:	CHRISTOPH E. SCHWEITZER, PH.D. <i>Chairman</i> WILLIAM Z. SHETTER, PH.D.
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A. HUGO SCHMIDT, PH.D.
INSTRUCTOR:	MARION S. IVES, A.B.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 102c the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Germany.

REQUIREMENTS IN THE MAJOR SUBJECT: The normal course sequence for the major is German 101, 102c, 202, and at least one advanced course. Special consideration is given to students who have supplemented their linguistic training as outlined above.

ALLIED SUBJECTS: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature:* Mr. Schmidt, Mr. Shetter.

Introduction to the main periods of German literature. Interpretation of texts from the early period to the present.

102c. *German Conversation and Composition*: Miss Ives.

Active use of the language in speaking and writing; discussion of topics; compositions; reports.

202a and b. *The Age of Goethe*: Mr. Schweitzer.

German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

[301. *Introduction to Germanic Philology*: Mr. Shetter.]

Brief introduction to the linguistic method. History of the language situation in the German-speaking world from the earliest records until the present day.

302. *German Language and Literature of the Middle Ages*: Mr. Shetter.

Introduction to the German language and culture of the Middle Ages. Reading of representative works such as *Der arme Heinrich*, *Tristan* and selections from *Minnesang*.

[303. *The Classics of the Nineteenth Century*: Mr. Schmidt.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

304. *Modern German Literature*: Mr. Schmidt.

Close study of the works of several major writers, among them Thomas Mann, Franz Kafka, and Bertolt Brecht, within the context of modern Western literature. Oral reports.

[305a. *The German "Novelle"*: Mr. Schmidt.]

Discussion of the evolution of this form, and close analysis of representative works.

[306. *The German Drama*: Mr. Schweitzer.]

Study of various dramatic forms. Emphasis on parallel European and modern developments.

[307b. *German Poetry*: Mr. Schmidt.]

Study of the work of major poets from a number of literary periods. Various critical approaches will be discussed and used.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences, and a long paper.

Greek

PROFESSORS:

RICHMOND LATTIMORE, PH.D., LITT.D.
MABEL LOUISE LANG, PH.D., *Chairman*

INSTRUCTOR:

T. LESLIE SHEAR, M.A.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201, and 301.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.

1. *Elementary Greek*: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* and *Crito* of Plato.

101. *Herodotus and Tragedy*: Miss Lang, Mr. Lattimore.

Prose composition is required.

102c. *Homer*: Miss Lang, Mr. Shear.

201. *Thucydides and Tragedy*: Mr. Shear.

Prose composition is required.

301. *Lyric Poetry and Comedy*: Mr. Lattimore.

[302. *Early Greek Literature: History and Criticism*: Mr. Lattimore.]

203.* *Greek Literature in Translation*: Miss Lang, Mr. Lattimore.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

History

PROFESSOR: CAROLINE ROBBINS, PH.D., *Chairman*

ASSOCIATE PROFESSOR: ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS: CHARLES M. BRAND, PH.D.
MARY MAPLES DUNN, PH.D.
BARBARA M. LANE, PH.D.
ALAN SILVERA, PH.D.

VISITING LECTURER: IVAN L. RUDNYTSKY, PH.D.

ASSISTANT: MARY ANN CALKINS, M.A.

PROFESSOR OF LATIN: THOMAS ROBERT SHANNON BROUGHTON,
PH.D.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical

method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

REQUIREMENTS IN THE MAJOR SUBJECT: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Mediaeval History, or an equivalent approved by the Department.

ALLIED WORK: Courses in Economics and Political Science are recommended for History majors. Courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin and Archaeology are recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present, as well as a deeper understanding of special problems in European history and historical interpretation, by means of investigation of a series of selected topics. In connection with these topics, which range from the general question "What is history?" to "Renaissance Florence: The Medici as patrons, politicians, and bankers" to "The Diplomacy of Imperialism: The Congress of Berlin," intensive reading of sources, general discussion, and independent study is required.

Students planning to major in History should ordinarily take 205 (ancient) or 101: if both seem necessary, the Department should be consulted.

[201. *History of England to 1960*: Miss Robbins.]

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention.

Semester I ends with discussion of the causes of the English Civil War, 1642; Semester II with changing social structure of twentieth-century Britain.

This course is open to all students. Given in alternate years.

202. *The Growth of the United States of America*: Mr. Dudden.

A study of American life in the nineteenth and twentieth centuries, the disruptions and the transformations from the original Republic.

203. *Mediaeval Civilization*: Mr. Brand.

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1830*: Mr. Silvera.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period. The course concludes with the Vienna settlement and the Congress system.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Silvera.

A survey of European developments, with particular emphasis on political and social history, from the age of Metternich through the age of Bismarck to the rise of imperialism. Among the topics considered are the effects of the Industrial Revolution, the Revolutions of 1848 and the growth of nationalism, the varieties of socialism and the diplomacy of imperialism.

205.* *Ancient History*: Mr. Broughton.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the Hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

206. *History of Russia*: Mr. Rudnytsky.

A survey of Russian history until the Revolution of 1917. The first semester is devoted to Russian history until Peter the Great; special emphasis will be placed on the Byzantine background of Russian history. The second semester deals with Russia under Tsarism.

207b. *Latin America: Colonies and Revolutions*: Mrs. Dunn.

Such topics as the Conquest, the transplanting of Spanish institutions and their modification in the New World, social structure, colonial economy, the Church in America, the character of revolutionary leadership, will be explored as a basis for understanding modern Latin America.

209a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries*: Miss Robbins.

Among topics discussed will be: the decline of Spain, Poland, and the Mogul Empire; the ascendancy of France; the rise of Sweden, Russia, Prussia, the Manchu Dynasty; mercantilism and the commercial revolution; the structure of absolutism, mixed monarchy and federal governments; the development and rivalries of the French, English and Dutch East India Companies; religious controversies and movements, Jesuit, Jansenist, Deist, Mystic.

210. *Topics in the History of the Modern Near East*: Mr. Silvera.

A survey of the development of the Arab world and Turkey in the nineteenth and twentieth centuries with special emphasis on political and intellectual history and the social structure of the emerging Arab states. The legacy of Islam, the decline of the Ottoman Empire, the impact of the West and the rise of Arab nationalism are among the topics considered.

301. *Europe in the Twentieth Century*: Mrs. Lane.

The first semester reaches and includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303. *Recent History of the People of the United States*: Mr. Dudden.

Studies of social change and response since the late nineteenth century, with consideration of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics, and the main currents of thought and artistic expression. With permission, students may elect one semester only.

304a. *English History: the Victorians*: Miss Robbins.

Round table discussion each week of different aspects of the Victorian activity; parliamentary reform; the Chartists; early labor movements and utopian socialists; the Church and the Oxford Reformers, the Catholic revival, the sects and the free-thinkers; Darwin and his critics; Pugin and the Gothic revival; the Great Exhibition and the popular taste; law reformers and Dickens; urban renewal in London and other cities; the Great Famine; Kipling, Chamberlain and the late imperialists; prime ministers and foreign secretaries, Peel, Palmerston, Gladstone, Disraeli and Salisbury.

[305. *Renaissance and Reformation*: Mrs. Lane.]

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

[306a. *The Enlightenment*: Miss Robbins.]

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. *Great Historians*: Miss Robbins.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather

than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

307a. *Age of Revolution: America in the Eighteenth Century:*
Mrs. Dunn.

A study of the thirteen English colonies, directed toward the general problem of the interpretation of the American Revolution. Particular emphasis will be placed on social and intellectual developments, and on the historiography of the Revolution.

FINAL EXAMINATION: The final examination for students in History consists of three parts, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in mediæval or in modern history. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1300
3. History of Europe 1300 to 1648
4. History of Europe 1648 to 1830
5. History of Europe 1830 to 1950
6. History of England (Special field)
7. History of the United States (Special field)
8. History of Russia (Special field)

The examinations in Ancient, English, Russian and American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third examination in a field of allied work.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

PROFESSOR:	CHARLES MITCHELL, M.A., B.LITT., <i>Chairman</i>
ASSOCIATE PROFESSOR:	JAMES E. SNYDER, M.F.A., PH.D.
ASSISTANT PROFESSOR:	ANNE COFFIN HANSON, PH.D.
INSTRUCTOR:	STEPHEN PEPPER, M.A.
ARTIST IN RESIDENCE:	FRITZ JANSCHKA

The history of art is studied as an historical discipline. The Department normally offers an introductory course and a series of special courses. Workshop supervision is also offered by the Artist in Residence, for which there is no tuition fee and academic credit is not granted.

REQUIREMENTS FOR THE UNDERGRADUATE MAJOR: A minimum of four full-year courses (or the equivalent) is required, consisting of the introductory course (normally) and three others. A 200 course may be modified to count as advanced at the discretion of the Department. It is advisable for anyone contemplating a major in the history of art to consult the Department as early as possible in her college career.

ALLIED SUBJECTS: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History:* Mrs. Hanson, Mr. Janschka.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from mediaeval to modern times. Studio work, two hours weekly, with Mr. Janschka is also required.

201. *Mediaeval Art:* Mr. Snyder.

Selected topics and works from the fourth to the fourteenth century.

202. *Renaissance Art:* Mr. Mitchell.

European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art*: Mr. Pepper.

European art from the late sixteenth to the early eighteenth century.

204. *Modern Art*: Mrs. Hanson.

European art from the late eighteenth to the twentieth century.

300a. *Texts for Art-Historians*: Mr. Mitchell.

A course designed to give advanced students of art-history instruction and practice in the reading and interpretation of written documents bearing on the history of art. Participants need an elementary knowledge of Latin and a working knowledge of at least two of the following languages: French, Italian, German.

311a. *The Early Christian Basilica*: Mr. Snyder.

An advanced course for which a working knowledge of Latin, German and Italian will be useful.

314b. *Art in Europe and America since 1945*: Mr. Pepper.

An advanced course for students of modern art and culture.

321b. *Burgundian Court Art*: Mr. Snyder.

An advanced course for students of late mediaeval art and culture. A working knowledge of French, German and Latin will be useful.

FINAL EXAMINATION: The final examination for students in the History of Art consists of three parts of three hours each:

1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special field or topic.

HONORS WORK: Honors work is offered to students recommended by the Department.

History of Religion

ASSOCIATE PROFESSOR

OF PHILOSOPHY:

JEAN A. POTTER, PH.D.

INSTRUCTOR:

DOROTHY CORBETT, M.A.

Appointment to be announced.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work. Philosophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination.

No major is offered in the History of Religion.

101b.* *History of Christian Thought*: Miss Corbett.

A basic survey of the development of Christian theology, though no attempt will be made to be chronologically all-inclusive. Major emphasis will be placed on selected periods, including the Early Church, Augustine, Aquinas, Luther, Calvin, the Radical Reformation, and twentieth century Protestant and Catholic theology.

[103. *Literary History of the Bible*.]

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a.* *History of Ancient Israel*: Miss Corbett.

The rise of Hebrew religion against its ancient Near Eastern background, from Mesopotamia until the Christian era. Focused on the Old Testament, with special attention to Biblical archaeology, social history of the Hebrew nation, and theological development of Judaism.

201b.* *Christian Beginnings*: Miss Corbett.

Introduction to the New Testament, with emphasis on the post-exilic Jewish background, intertestamental literature, the Dead Sea Scrolls, the mission of Jesus and formation of the Early Church.

202.* *Man and His Religions*: Miss Corbett.

The nature of religious experience, ritual and social institutions, as illustrated by primitive religion and several contemporary religions. The first semester will emphasize the methodology of van der Leeuw, Eliade, Durkheim and Weber, and primitive religion. The second semester will give illustrations

from Hinduism, Buddhism and Islam. May be taken as a half-unit course either for Semester I only or in Semester II with special permission of the instructor.

203a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

203b. *Mediaeval Philosophy*: Miss Potter.

The history of the development of mediaeval philosophy from its origins in classical and Patristic thought to the fifteenth century.

This course is also listed as Philosophy 203.

Italian

PROFESSOR:

ANGELINE HELEN LOGRASSO, PH.D.,
Chairman

ASSISTANT PROFESSOR:

BERNARD TOSCANI, PH.D.

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 1, 101, 201, 202, and one other advanced course. For students who enter College with Italian, proper substitutions will be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests. In all courses students are urged to use tapes available in the Language Laboratory.

1. *Italian Language*: Miss Lograsso, Mr. Toscani.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week.

101. *Intermediate Course in the Italian Language*: Mr. Toscani.

Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

[102c.* *Dante in English Translation*: Miss Lograsso.]
The New Life and Divine Comedy.

[103c.* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

[201. *Classics in Italian Literature*: Miss Lograsso.]

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language*: Miss Lograsso.]

Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

304. *Italian Literature of the Romantic Period*: Miss Lograsso.

JUNIOR YEAR ABROAD: Students approved by the Department and the Dean may be recommended for the Junior year in Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; ability to write the language.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

PROFESSORS:	THOMAS ROBERT SHANNON BROUGHTON, PH.D. AGNES KIRSOPP MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE	
PROFESSOR:	MYRA UHLFELDER, PH.D.
INSTRUCTOR:	T. LESLIE SHEAR, M.A.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical and Near Eastern Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Mrs. Michels.

This course is planned to cover three units of entrance Latin. Students who have had two years of Latin in school may enter this course in the second semester. Those who have completed it satisfactorily may take Latin 101.

101. *Latin Literature*: Mr. Broughton, Mrs. Michels, Miss Uhlfelder, Mr. Shear.

Selections will be read from the poems of Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius in the first semester; and from Livy's *History* and the *Odes* of Horace in the second. Prerequisite: at least three units of entrance Latin.

201a. *Horace and the Elegiac Poets*: Mr. Shear.

Reading from the *Satires* and *Epistles* of Horace, and from Tibullus, Propertius and Ovid, with special attention to the character of late Augustan literature.

201b. *Latin Literature of the Silver Age*: Miss Uhlfelder.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202c.* *Mediaeval Latin Literature*: Miss Uhlfelder.

The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas. Pre-requisite: four units of entrance Latin or Latin 101.

203. *Latin Style*: Mr. Broughton, Miss Uhlfelder.

A study of the style and technique of the main Roman authors and of the chief meters of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

301a. *Vergil's Aeneid*: Mrs. Michels.

301b. *Tacitus and Livy*: Mr. Broughton.

[302a. *Cicero and Caesar*: Mr. Broughton.]

[302b. *Lucretius*: Miss Uhlfelder.]

FINAL EXAMINATION: The final examination for students majoring in Latin consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
 - a. Latin Literature of the Republic
 - b. Latin Literature of the Empire
 - c. Latin Literature of the Ciceronian and Augustan Age
 - d. Roman History from the Sources (100 B.C. to 70 A.D.)
3. An examination on one of the following subjects:
 - a. An allied subject (Students are advised if possible to take the third examination in Greek)
 - b. A second subject from Group 2 (Choice must avoid duplication of material)
 - c. The development in Latin literature of an important literary type
 - d. An important period or type in Mediaeval Latin literature
 - e. Latin Prose Style

HONORS WORK: Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

PROFESSORS:	JOHN C. OXTOBY, M.A., <i>Chairman</i> MARGUERITE LEHR, PH.D. ¹
ASSOCIATE PROFESSOR:	FREDERIC CUNNINGHAM, JR., PH.D.
ASSISTANT PROFESSOR:	ETHAN D. BOLKER, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202C, 301, 303a, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Calculus, with Analytic Geometry:* Mr. Oxtoby, Mr. Bolker.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry. The interplay between mathematical ideas and applications is exploited.

103. *Topics in Modern Mathematics:* Mr. Cunningham.

This course is offered as an alternative to Calculus, for students electing one year of Mathematics, having had three years of high school preparation and not intending to continue to more advanced courses in Mathematics. Topics will be selected

1. On sabbatical leave for the year, 1964-1965.

from Algebra, inequalities, set theory, matrices, game theory, linear programming, probability, statistics, and other subjects. The emphasis will be on techniques and ideas finding application in the social and biological sciences. The aim of the course is to develop facility in manipulating mathematical ideas and notations and in reading material relying on them, and to develop understanding of Mathematics as a field of independent interest.

201. *Second-Year Calculus*: Mr. Oxtoby.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics and chemistry.

202c. *Solid Analytic Geometry and Algebra*: Mr. Bolker.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. Cunningham.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

[302b. *Introduction to Geometric Theories*.]

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

303. *Introduction to Abstract Algebra*: Mr. Bolker.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

[304a. *Theory of Probability and Statistics*.]

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

[305b. *Topics in Differential Geometry*: Miss Lehr.]

[310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311b. *Differential Equations*: Mr. Cunningham.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 301 (may be taken concurrently).

312a. *Topology*: Mr. Cunningham.

Properties of topological spaces and continuous mappings. Prerequisite: Mathematics 301 or 303.

312b. *Topics in Topology*: Mr. Cunningham.

Prerequisite: Mathematics 312a.

FINAL EXAMINATION: The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

Music

PROFESSOR AND DIRECTOR

OF CHORUS:

ROBERT L. GOODALE, A.B., B.Mus.,
A.A.G.O., *Chairman*

PROFESSOR AND DIRECTOR

OF ENSEMBLE GROUPS: AGI JAMBOR, M.A.

VISITING PROFESSOR: HORACE ALWYNE, F.R.M.C.M.

LECTURER: ISABELLE CAZEAUX, Ph.D.

ASSISTANT: CAROLINE M. CUNNINGHAM, M.A.

DIRECTOR OF ORCHESTRA: WILLIAM H. REESE, Ph.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and

sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Mr. Alwyne.

A comprehensive survey from the period of Bach to the end of the nineteenth century, with special emphasis on the technique of intelligent listening.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *The Romantic Period:* Miss Cazeaux.

An intensive study of nineteenth-century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis:* Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203c. *Bach:* Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

204c. *The Classical Period*: Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

205b. *Musical Criticism*: Mme. Jambor, Miss Cazeaux.

Prerequisite: Music 101.

300a. *English Music*: Mr. Alwyne.

A brief summary of early innovations in church music, the flowering of the Elizabethan age, the period of the Puritans and the Restoration, and the influence of Handel will be followed by a detailed study of the renascence of the English spirit, the folk music revival, the influence of poetry and the countryside, and the development of a varied but characteristic school of British music in the late nineteenth and twentieth centuries.

301a. *Opera and Music Drama*: Miss Cazeaux.

The evolution of opera from Gluck to Berg. Prerequisites: Music 101 and 102 or their equivalents.

301b. *Music of the Twentieth Century*: Mr. Goodale.

The continuing stream of romanticism in modern adaptations. Neo-classicism and Expressionism. Experimental new phases in linear counterpoint, polyrhythms, polytonality and micro-tonality. Prerequisites: Music 101, 102 and 202 or their equivalents.

[302a. *Mediaeval and Early Renaissance Music*: Miss Cazeaux.]

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301a.

[302b. *Late Renaissance and Baroque Music*: Miss Cazeaux.]

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

[303a. *Orchestration*: Mr. Goodale.]

Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

[303b. *Russian Music*: Mr. Alwyne.]

The development of Russian music from the time of its

emergence from foreign domination in the early nineteenth century to the period of the Second World War. Prerequisites: Music 101, 102 or their equivalents.

304a. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme. Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

HONORS WORK: Honors work is offered for students recommended by the Department.

FINAL EXAMINATION: The final examination consists of three parts with three-hour examinations in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in college services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, selected from members of the Chorus, frequently sings at concerts and occasionally goes on trips as an independent unit.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i> JOSÉ MARÍA FERRATER MORA, <i>Lic.F.L.</i> HUGUES LEBLANC, PH.D. ISABEL SCRIBNER STEARNS, PH.D.
ASSOCIATE PROFESSORS:	GEORGE L. KLINE, PH.D. ¹ JEAN A. POTTER, PH.D.
LECTURER:	ROBERT E. GAHRINGER, PH.D.
INSTRUCTOR:	MARGARET HEALY, M.A.
ASSISTANTS:	PAUL A. BANYACSKI, B.A. KATHLEEN J. STICKEL, M.A.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics, Hegel, Philosophy of Religion or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credits.

1. On leave of absence for semester I, 1964-1965.

ALLIED SUBJECTS: Biology, Chemistry, Economics, English, Greek, French, German, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Russian and certain courses in History of Religion and Sociology and Anthropology.

101. *History of Philosophic Thought*: Mr. Nahm, Mr. Ferrater Mora, Miss Stearns, Mr. Leblanc, Miss Potter, Mr. Gahringer, Miss Healy.

Some writings of the major philosophers, classic and modern, are studied and discussed.

201a. *German Idealism*: Mr. Ferrater Mora.

The philosophy of Kant.

201b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

202a. *Logic*: Mr. Leblanc.

An introduction to modern logic.

202b. *Ethics*: Mr. Nahm.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

203a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

203b. *Mediaeval Philosophy*: Miss Potter.

The history of the development of mediaeval philosophy from its origins in classical and Patristic thought to the fifteenth century.

204a. *American Philosophy*: Mr. Gahringer.

Major philosophical movements in America. The philosophers included in the course are Edwards, Emerson, Thoreau, Pierce, James, Royce, Dewey.

204b. *Contemporary Philosophy*: Mr. Gahringer.

An outline and appraisal of some major present-day schools, such as Existentialism, Neo-Scholasticism, Logical Positivism, and Analytic Philosophy.

[205a. *Russian Ethical and Social Theory*: Mr. Kline.]

A critical survey of major trends in Russian ethics and social philosophy from the eighteenth century through the Soviet period, with principal emphasis upon nineteenth-century thinkers, both Marxist and non-Marxist.

205b. *Hegel*: Mr. Kline.

A study of Hegel's philosophy, with emphasis upon *The Phenomenology of Mind* and with some reference to the Hegelian influence on Existentialism.

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism.

301b. *Theory of Knowledge*: Mr. Leblanc.

An analysis of the scope, structure and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

302b. *Philosophy of History*: Mr. Ferrater Mora.

The philosophical interpretation of history, its meanings and laws.

303a. *Descartes and Spinoza*: Miss Potter.

A study of the metaphysical systems of Descartes and Spinoza, and their background in scholastic and Renaissance thought.

303b. *Texts in Mediaeval Philosophy*: Miss Potter.

A concentrated study of one or two of the important writings in mediaeval philosophy.

304b. *Political Philosophy*: Mr. Gahringer.

A systematic study of the nature of the state and the foundations of political obligation, with a discussion of the philosophical issues involved in such problems as punishment, censorship, and liberalism and conservatism. Readings will be assigned from historical and contemporary sources.

305a. *British Empiricism*: Mr. Gahringer.

A detailed study of the major works of Locke, Berkeley, and Hume, emphasizing the logical continuity of this eighteenth-century movement.

FINAL EXAMINATION: The final examination consists of three written examinations in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy or Philosophy of Religion. For the first two, a subject such as "causation," "mind," "freedom" or "time" is studied in the writings of important philosophers. For the third, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.

Physics

PROFESSORS:	WALTER C. MICHELS, PH.D., <i>Chairman</i> ROSALIE C. HOYT, PH.D. ¹ JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	W. PAUL GANLEY, PH.D.
LECTURER:	MARK PHILLIP KLEIN, M.S.
ASSISTANTS:	THOMAS J. HIGGINS, M.A. GYDA A. OTTEN, B.S. DAVID C. SCOTT, B.S. WILLIAM C. SELLYEY, B.S. RAYMOND C. SWEENEY, JR., B.S. HERBERT E. WYLEN, M.A. UN-JIN P. ZIMMERMAN, PH.D.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of

1. On sabbatical leave for the year, 1964-1965.

experimental and logical techniques to increasingly independent studies of physical phenomena. No courses dealing specifically with atomic and nuclear physics or "modern" physics are offered—this material is incorporated in the appropriate courses and is given special attention during the senior year, as part of the preparation for the final examination in the major subject.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101 or 102, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301 through 305; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics:* Mr. Ganley, Mr. Pruett.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

102. *Introductory Chemistry and Physics.*

See Interdepartmental Course 102, page 117.

201a. *Electricity and Magnetism:* Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101 or 102, Mathematics 201 (may be taken concurrently).

202b. *Optics:* Mr. Ganley.

Geometrical optics, interference and diffraction phenomena, polarization, dispersion, and scattering studied from the point of view of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical Mechanics:* Mr. Klein.

Newtonian mechanics of particles and of rigid bodies, consequences of special relativity theory, generalized mechanics, vibrations and waves, applications to atomic and nuclear phenom-

ena. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

303b. *Thermal Properties of Matter*: Mr. Klein.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Pruett.

Application of generalized mechanics to coupled systems and continuous media; introduction to wave mechanics; electric, magnetic, and electromagnetic fields. Emphasis is placed on boundary value problems. Mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.

305c. *Physical Measurements*: Mr. Michels, Mr. Ganley.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

[351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101 or 102, Mathematics 101 and second-year work in Chemistry or Biology.

FINAL EXAMINATION: The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students). The student will devote

the equivalent of one semester of the preparation for the final examination in independent work and reading for this examination.

HONORS WORK: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSORS:	GERTRUDE C. K. LEIGHTON, A.B., LL.B., <i>Chairman</i> PETER BACHRACH, PH.D. ¹
ASSOCIATE PROFESSOR:	MELVILLE T. KENNEDY, JR., PH.D. ¹
ASSISTANT PROFESSOR:	CHARLES E. FRYE, PH.D.
LECTURERS:	PAUL R. BRASS, PH.D. ALICE F. EMERSON, PH.D.
ASSISTANT:	OK YUL KIM, M.A.

DEAN OF THE
COLLEGE:

DOROTHY NEPPER MARSHALL, PH.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Political Science must take a minimum of four units in the major and two in allied work. At least one unit of major work must be taken in advanced courses. As a prerequisite to all other courses offered, majors must complete one unit of work chosen among the following: 201a, 202a, 203a, 204b, 205a, 206b, 209b, 212b, 213a, 214b. Students who are not majors in the Department, however, may take any second year course, provided that one unit of work has been completed in allied subjects. For required fields in the major, see page 104 under final examination. With the permission of the Department, courses at Haverford College, other than those listed below, may be taken for major or allied credit.

ALLIED SUBJECTS: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of

1. On sabbatical leave for the year, 1964-1965.

the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

201a. *American National Politics*: Mrs. Emerson.

An analysis of the political behavior of individuals and groups within the context of the legislative and administrative process will be emphasized. Theories relating to the governmental process in the United States will be incorporated within this analysis and recent studies in political sociology will be relied upon as background material.

202a. *Western Political Theory: Ancient and Mediaeval*: Mr. Frye.

A study of the development of theory: Greek, Roman and Christian, and mediaeval, concluding with a discussion of the problems of theory in the sixteenth century.

[203a. *Government and Politics in East Asia*: Mr. Kennedy.]

An approach to modern Asian politics (prior to 1950) through a study of the major philosophic and institutional features of dynastic China and areas under Chinese cultural influence. India and Japan are considered for comparative purposes.

[204b. *Communism and Nationalism in Asia*: Mr. Kennedy.]

A consideration of the central concepts in communism and nationalism and of their role in the sweeping changes Asia has experienced since World War II.

205a. *Government and Politics in Western Europe: Britain, France and Scandinavia*: Mr. Frye.

A comparative analysis of the contemporary political systems of Great Britain, France and Scandinavia, with special reference to factors making for stable and effective democracy.

206b. *Values, Science and Politics*: Miss Leighton.

Designed as a study of the discipline of political science, the course examines the philosophical, historical and scientific approaches to the political process. Illustrative problems are selected from the international and comparative fields.

207a. *The Soviet System*: Mr. Hunter, Haverford College (Economics 43).

See Interdepartmental Course 207a, page 118.

- 209b. *Western Political Theory: Hobbes to the Present:* Mrs. Emerson.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

- 210a. *American Constitutional Law:* Mrs. Emerson.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

- 212b. *Government and Politics in Western Europe: Germany, Italy and the Soviet Union:* Mr. Frye.

A comparative analysis of the political systems of Germany, Italy and the Soviet Union since 1918, with special reference to the causes and nature of totalitarianism and its impact upon a society.

- 213a. *Government and Politics in South Asia: India, Pakistan and Ceylon:* Mr. Brass.

A comparison of problems of political development in India, Pakistan and Ceylon. Special attention will be given to the interaction between modern politics and the traditional societies.

- 214b. *Politics of Developing Areas:* Mr. Brass.

A comparative analysis of the problems of transition from colonial rule to independence in the new states of Asia and Africa. The course will focus on factors which influence the ability of the new states to achieve national unity and to operate representative institutions effectively.

- 215a. *Public Administration and Bureaucracy:* Mr. Diamant, Haverford College (Political Science 39).

A comparative study of administration and bureaucracy as central elements of modern society. Administrative structure and process and bureaucratic personnel in major contemporary political systems, e.g., U.S., U.S.S.R., Great Britain, France and India.

- 216b. *African Politics:* Mr. Glickman, Haverford College (Political Science 38).

A study of political ideologies, systems and processes in new states. The impact of the West on traditional societies, the growth and effects of nationalism and the problems of stability and popular government are emphasized.

301a. *Law and Society*: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, business and government are discussed.

302b. *Law, Policy and Personality*: Miss Leighton.

Selected topics in the study of the relation between the legal process and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken any one of the following: Political Science 210b, 301a, 311a, or with permission of the instructor.

303a. *Problems in International Politics*: Mr. Brass.

A study of developments in international politics since World War II. Emphasis will be given to an analysis of the origins and development of the Cold War, to the role of the new states in world politics, and to the implications of the development and spread of nuclear weapons technology.

304b. *West European Integration*: Mr. Frye.

An analysis of postwar moves toward integration in Western Europe, with special emphasis upon the factors behind integration and upon the impact of integration upon member societies.

[305a. *Aspects of Latin American Politics and Economics*: Mrs. Marshall, Mr. Baratz.]

See Interdepartmental Course 305a, page 118.

[306b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz (Department of Economics).]

See Interdepartmental Course 306b, page 118.

[307a. *Modern Germany*: Mr. Frye.]

[308b. *American Political Theory*: Mr. Bachrach.]

The development of American political ideas from the Revolution to the present, with some attention to the English and Colonial origins.

309b. *Selected Topics in Modern Political Thought*: Mr. Frye.

A study of certain major political problems besetting modern societies in the light of the writings of recent democratic and non-democratic thinkers.

310b. *Comparative Political Parties*: Mr. Brass.

An examination of the role of political parties in the modern state. Similarities and differences in the origins and development of political parties and the functions they perform, both in established democracies and in the developed countries, will be discussed.

311a. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

FINAL EXAMINATION: The final examination consists of three examinations, the first of which is a general examination in Political Science and must be taken by all seniors majoring in the Department. The second and third examinations each cover a single specialized field, to be selected from the following (the course numbers indicate the courses falling within each field): Political Philosophy and Theory (202a, 206b, 209b, 306b, 308b, 309b); Politics and Law in American Society (201a, 210a, 215a, 301a, 302b); Comparative Politics (203a, 205a, 207a, 212b, 213a, 214b, 216b, 304b, 305a, 307a, 310b); International Politics and Law (204b, 303a, 311a). All students must complete at least one and one-half units in the special fields which they select. Students may, on consultation with the Department, elect to take one field in an allied subject. A conference for all seniors is held weekly.

HONORS WORK: Seniors admitted to Honors Work prepare an independent research report (one unit of credit) under the supervision of a member of the Department. Weekly conferences are held. Field work is encouraged.

Psychology

PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i> RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	ROBERT SIMON DAVIDON, PH.D. RICHARD CHARLES GONZALEZ, PH.D. HARRY STEPHEN UPSHAW, PH.D.
LECTURERS:	KATHRYN ELINOR KOENIG, PH.D. WILLIAM R. A. MUNTZ, PH.D.
ASSISTANTS:	BARRY BERGER, M.A. PETER HOLMES, A.B. LUBA SHARP, A.B.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychology. Problems of application are considered, and the relation of psychology to other natural and social sciences is emphasized. The major program prepares the student for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101; two of the following four courses: Psychology 201a, 203b, 205a, 301b; two of the following four courses: Psychology 202b, 302a, 303b, 304b; Psychology 307a; and one additional unit in Psychology. Psychology 204a is strongly recommended to students preparing for graduate work.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science, Sociology.

101. *General Psychology*: Mr. Gonzalez, Mr. Upshaw.

A survey of basic facts and principles: perception, motivation, emotion, learning, thinking, personality, and social psychology. Three hours of lecture and two hours of laboratory each week.

201a. *Comparative Psychology*: Mr. Bitterman.

The psychology of animals: instinctive activities, motivation, learning, the evolution of intelligence. Three hours of

lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

202b. *Psychological Testing*: Miss Koenig.

Trait assessment and prediction; demonstration and evaluation of principal tests; scaling and test development; the structure of human abilities. Three hours of lecture and two hours of laboratory each week. Prerequisites: Psychology 101 and Psychology 204a or permission of instructor.

203b. *Human Learning and Thinking*: Mr. Gonzalez.

Verbal learning and retention; meaning and creative thought. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 201a.

204a. *Experimental Methods and Statistics*: Mr. Davidon.

Measurement, descriptive statistics, probability, association, testing of hypotheses, and the design of experiments. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

205b. *Perception*: Mr. Davidon.

Differentiation and organization of the perceived environment, visual, auditory, and tactual-kinesthetic. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

301b. *Physiological Psychology*: Mr. Muntz.

The physiological and anatomical bases of behavior. Three hours of lecture and three hours of laboratory each week. Prerequisite: Psychology 101.

302a. *Psychology of the Normal Personality*: Miss Koenig.

Developmental, clinical and experimental evidence relating to the 'normal' personality. Supervised case-study. Prerequisite: Psychology 101.

303a. *Social Psychology*: Mr. Upshaw.

The psychological study of man in society. Prerequisite: Psychology 101 or permission of the instructor.

304b. *Psychology of the Abnormal Personality*: Mrs. Cox.

Concepts of normality, types of abnormality, methods of investigation and principles of psychotherapy. Three hours of

lecture each week and occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 101.

306a and b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

307a. *History of Psychology*: Mr. Davidon.

A seminar for senior majors on the historical background of contemporary psychology. Two hours each week.

Senior Conferences: Members of the Department.

Weekly conferences with majors during the second semester of the senior year in preparation for the Final Examination.

FINAL EXAMINATION: The final examination is in three parts:

1. General Psychology.
2. History of Psychology.
3. A specialized examination in one of the following fields:
 - Comparative Psychology
 - Human Learning and Thinking
 - Perception
 - Personality, Normal and Abnormal
 - Physiological Psychology
 - Psychological Testing
 - Social Psychology

An Honors paper or (with the approval of the Department) an examination in an allied field may be substituted for Part 3.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for Part 3 of the final examination.

Russian

PROFESSOR:	FRANCES DE GRAAFF, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. KLINE, PH.D. ¹
ASSISTANT PROFESSORS:	IRENE NAGURSKI, PH.D. RUTH C. PEARCE, PH.D.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202, the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 200, 201 and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff, Mrs. Pearce.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Mrs. Pearce, Miss Nagurski.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. *Advanced Training in the Russian Language*:
Miss Nagurski.

201. *Readings in Russian Literature*: Miss de Graaff.

Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

1. On leave of absence, semester I, 1964-1965.

[202.* *General Readings in Russian.*]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

[203.* *Russian Literature in Translation:* Miss de Graaff.]

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. *Russian Poetry of the Nineteenth Century:* Miss de Graaff.]

302. *Pushkin and His Time:* Miss Nagurski.

[303. *Russian Literature of the Twentieth Century:* Mr. Kline.]

[304. *Social Trends in Nineteenth-Century Russian Literature:* Miss de Graaff.]

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

HONORS WORK: Honors work is offered to students recommended by the Department.

Sociology and Anthropology

PROFESSOR OF ANTHROPOLOGY:	FREDERICA DE LAGUNA, PH.D., <i>Chairman</i>
PROFESSOR OF SOCIOLOGY:	EUGENE V. SCHNEIDER, PH.D.
ASSISTANT PROFESSOR OF ANTHROPOLOGY:	JANE C. GOODALE, PH.D.
VISITING LECTURER IN ANTHROPOLOGY:	A. IRVING HALLOWELL, PH.D.
VISITING LECTURER IN SOCIOLOGY:	SEYMOUR LEVENTMAN, PH.D.
<hr/>	
PROFESSOR OF SOCIAL WORK AND SOCIAL RESEARCH:	BERNARD ROSS, PH.D.
AT HAVERFORD	
PROFESSOR OF SOCIOLOGY:	IRA DE A. REID, PH.D.
ASSISTANT PROFESSOR OF SOCIOLOGY:	MARTIN OPPENHEIMER, PH.D.

The student may select one of three programs: (1) A major in Anthropology, (2) A major in Sociology, (3) A joint major in Sociology and Anthropology. Each of these programs is described below.

ANTHROPOLOGY

The aim of the major is to introduce the student to an understanding of man and his works, evolution, the origin and development of culture, and the basic cultural patterns and social processes in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 203a and b, 204a or 208a and a unit of advanced work.

ALLIED SUBJECTS: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society*: Miss de Laguna.

Man's place in nature; the development of human culture to the rise of the early civilizations in the Old and New Worlds; the nature of culture and its forms among primitive peoples.

203a. *Primitive Culture*: Miss Goodale.

Analysis of significant studies of culture in selected areas, illustrating the methods and aims of ethnography. Prerequisite: Anthropology 101.

203b. *Primitive Society*: Miss Goodale.

Social structures of preliterate peoples; their functions and the types of sanctions which control their members. Prerequisite: Anthropology 101 and 203a.

[204a. *American Archaeology*: Miss de Laguna.]

Introduction to the archaeology of the Indians of Middle and North America. Prerequisite: Anthropology 101 or 209b, or Classical Archaeology 101, or by permission of instructor.

208a. *Human Evolution and Prehistory*: Miss Goodale.

Prerequisites: Anthropology 101, Biology 101 or Geology 101, Classical Archaeology 101, or by permission of instructor.

[209a. *Stone Age Man and the Modern World*.]

Contemporary hunting and gathering peoples in the old and new worlds; their adjustments to their natural environments; their relation to stone age cultures of the past, their contributions to and relations with modern civilized cultures.

209b. *The American Indian*: Miss de Laguna.

The Indians of Middle and North America as presented in such literary sources as reports of early explorers, anthropological novels, and native autobiographies, revealing ethos and cultural values.

301. *History of Anthropology*: Mr. Hallowell.

Analyses of the important classical and modern contributions. Prerequisite: Anthropology 203a, or by permission of instructor.

[303a. *Ethnological Problems in Oceania*.]

Prerequisite: Anthropology 203a.

304a. *Culture and Personality*: Miss de Laguna.

The relation of human personality to culture and its variations in different cultural settings. Prerequisite: Anthropology 101, or by permission of instructor.

FINAL EXAMINATION: The final examination for students majoring in Anthropology is in three parts:

1. General Anthropology.
2. History and Theory.
3. A special field or project in Anthropology, or an allied field.

HONORS WORK: HONORS work is offered to students of marked ability, and will consist of independent reading, reports and conferences, and the preparation of a written report.

SOCIOLOGY

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

REQUIREMENTS FOR THE MAJOR SUBJECT: 102a and b, 21a (Haverford), 302a, and one further unit and a half of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. In addition, the student is required to take one of the following courses: Anthropology 101, Economics 101, or Psychology 101, or a unit of Political Science.

ALLIED SUBJECTS: Anthropology, Economics, Psychology, Political Science, Philosophy, History and Mathematics.

102a. *Introduction to Sociology:* Mr. Schneider.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Attention will be paid to various forms of social organization; groups, crowds, publics, institutions, organizations. Examples will be drawn from several non-industrial societies.

102b. *American Social Structure*: Mr. Schneider.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

202a.* *History and Philosophy of Social Welfare*: Mr. Ross.

American social welfare programs, their heritage and future trends; social work as an institution and profession.

205a. *Social Stratification*: Mr. Leventman.

An examination of the class and status systems of the United States and other countries and the effects of these systems on other areas of social life.

206b. *Social Disorganization*: Mr. Schneider.

A study of social factors in various forms of pathological behavior; crime, juvenile delinquency, mental illness, conflict, etc.

208b. *Collective Behavior: Personality and the Social Order*: Mr. Leventman.

An examination of various sociological approaches to the relationship of the individual and the group: influence of groups on personality, attitudes and values.

302a. *Social Theory*: Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers.

SOCIOLOGY AT HAVERFORD

21a. *Social Research*: Members of the Department.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical and other research procedures. Individual projects.

33a. *Population Policies and Problems*: Mr. Reid.

A study of the restrictive, expansive and eugenic aspects of national population policies as they are related in demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration and food supply.

37a. *The Family*: Mr. Reid.

A study of the institutions designed to guarantee the per-

petuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects.

43. *Sociology and Social Criticism*: Mr. Oppenheimer.

An examination of the transition and theories of social criticism and social dissent in American sociology, with special reference to the works of C. Wright Mills, his critics and collaborators. Prerequisite: Consent of the instructor.

FINAL EXAMINATION: The final examination for students majoring in Sociology is in two parts:

1. General Sociology.
2. A special field in Sociology, such as Social Theory, Race Relations, Industrial Sociology, Social Disorganization. An allied field may be substituted for one of these.

HONORS WORK: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.

JOINT MAJOR IN SOCIOLOGY AND ANTHROPOLOGY: The aim of the major is to provide the student with a general understanding of human society and human culture. Analyses are made of cultural and social institutions of primitive and complex societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory.

REQUIREMENTS IN THE MAJOR SUBJECT: Anthropology 101, 203a, 204a or 208a, and a unit of advanced work; Sociology 102a and 102b, 21a (Haverford), 302a, and another unit of second-year or advanced work.

FINAL EXAMINATION: The final examination for students taking the joint major is in three parts.

1. General Anthropology.
2. Sociology.
3. A second field in either Anthropology or Sociology; or an allied field.

HONORS WORK: Honors work in the joint major is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

Spanish

PROFESSOR:	JOAQUÍN GONZÁLEZ MUELA, <i>D. en F.L.</i>
ASSOCIATE PROFESSOR:	WILLARD FAHRENKAMP KING, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	PHYLLIS TURNBULL, <i>D. en F.L.</i> ¹
INSTRUCTOR:	ELEANOR KRANE PAUCKER, PH.D.

DEAN OF THE COLLEGE:	DOROTHY NEPPER MARSHALL, PH.D.
PROFESSOR OF PHILOSOPHY:	JOSÉ MARÍA FERRATER MORA, <i>Lic.F.L.</i>

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 102 and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish:* Mrs. Paucker.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish:* Mr. González Muela.

Intensive grammar review and exercises in composition and conversation.

1. On sabbatical leave for the year, 1964-1965.

101. *Masterpieces of Spanish Literature (from 1700 to 1936)*: Mrs. King.

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

- [102. *Masterpieces of Spanish Literature (from the Poema del Cid to 1700)*: Mrs. King.]

A survey of Mediaeval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition*: Mr. González Muela.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student

- 203a. *Spanish American Literature — The literary revolution*: Mrs. Paucker.

Poetry and prose from the *Modernista* movement to the present.

- 203b. *Spanish American Literature — The political and social revolution*: Mrs. Paucker.

The development of the national ideal in the prose writers from Sarmiento to the present.

- [302a. *Mediaeval Spanish Literature*: Miss Turnbull.]

- [303a. *The Modern Novel in Spain*: Mrs. King.]

The development of the Spanish narrative from the Generation of 1898 to the present.

- [303b. *Modern Spanish Poetry*: Mrs. King.]

Spanish poetry from *Modernismo* to the present.

- 304a. *Drama of the Golden Age*: Mrs. King.

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

304b. *The Age of Cervantes*: Mrs. King.

The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote*.

[305. *Prose Fiction of the Renaissance*.]

From *La Celestina* to *Don Quixote*.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Courses

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

102. *Introductory Chemistry and Physics*: Mr. Michels, Mr. Zimmerman.

This course is intended to give an introduction in depth to our present knowledge of the physical world, and of its quantized, atomic and molecular structure, as well as of the processes by which this knowledge has been obtained. It will cover essentially all of the subject matter included in Chemistry 101 and Physics 101, and will serve as preparation for Chemistry 201a, Chemistry 202, and Physics 201a. One and one-half units. Five lectures and six hours of laboratory per week.

- [203. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.]

The development of scientific ideas is traced against the historical background of other intellectual activities, social changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics or Science.

- 207a. *The Soviet System*: Mr. Hunter, Haverford College (Economics 43).

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or a unit of second-year work in Political Science; or History 101. (This course is also listed as Political Science 207a.)

- [305a. *Aspects of Latin American Politics and Economics*: Mrs. Marshall, Mr. Baratz.]

Detailed study of certain basic political and economic problems in Latin America. Open to students who have had at least one year of Political Science and Economics. Preference given to those who have a reading knowledge of Spanish.

- [306b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.]

A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 306b.)

309. *Applied Linguistics*: Mr. Shetter.

The theory and practice of modern descriptive linguistics in its relevance to the field of second-language learning. Analysis of the phonological and grammatical patterns of English contrasted to those of the second language.

Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	GLORIA K. SCHMIDT, M.A.
	HARRIET GRASSON GORDON, B.A.
	ANN CARTER MASON, B.S.
	GAIL STRATHDEE, B.A.
	JANET A. YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance, and aquatic activities. Class instruction enables the student to explore the possibility and range of movement of her own body and better understand the physiological and structural basis for such movement, and to learn new skills or to improve her techniques. Interclass, inter-hall and varsity schedules of games and tournaments provide the opportunity for all students to experience competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association in promoting the activities of the Dance Club, Synchronized Swimming Club and Outing Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year. Part of the fall and winter terms will be given over to a course in Movement Analysis.

The sophomore requirement consists of two periods a week throughout the year. The student is given a free choice in election of activities.

All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student unless excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings are:

FALL: archery, fencing, golf, hockey, modern dance, movement analysis, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. WINTER: badminton, basketball, diving, exercise, fencing, folk dance, modern dance, movement analysis, skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. SPRING: archery, golf, lacrosse, riding,* swimming, tennis and volleyball.

SWIMMING TEST: one standing dive, back float two minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

* Open only to Sophomores with permission of the Department.

Financial Aid

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have recently been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty-five per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1100. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. All applicants must submit in support of application for financial aid the form entitled Parents' Confidential Statement which is prepared by the College Scholarship Service of the College Entrance Examination Board. When the total amount of aid needed has been determined, awards are made in the form of loans and scholarships. Beginning with the class of 1966, all students who are granted a scholarship in the award of the College or the alumnae clubs will be required to borrow the first \$200 of their total financial aid

from one of the loan funds (see page 140). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 139.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR FINANCIAL AID AVAILABLE AT ENTRANCE

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service *no later than January 10* of the student's final year in high school in the case of regular applicants, and no later than October 10 in the case of applicants under the Early Decision Plan.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult their school counselors about national and local scholarships which may be available.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by February 6. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.

Scholarship Funds

Alumnae Regional Scholarships are available to students in all parts of the United States. These scholarships, raised by alumnae, vary in amount but may cover full tuition for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of \$10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. The income from the fund of \$25,000 is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

The Elizabeth Congdon Barron Scholarship Fund was established in 1964. In 1960 by Mrs. Barron's bequest of \$2,500 the Elizabeth Congdon Barron Fund was established "for the general purposes of the College." Through gifts from her husband Alexander J. Barron, the Fund has been increased to \$25,000 and the Elizabeth Congdon Barron Scholarship Fund has been established. (1964)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to \$50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated *cum laude* in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$15,855. (1947)

NOTE: The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.

The Bryn Mawr School Scholarship, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

The Mariam Coffin Canaday Scholarship Fund was established by a gift of \$18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this Fund is to be capitalized until the Fund reaches the amount of \$25,000. Scholarships are then to be awarded from the income, with preference given to students from metropolitan Toledo, Ohio. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of \$30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962 a generous addition of \$6,011 was made to the Jeannette Peabody Cannon Memorial Scholarship Fund by Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by gifts now totalling \$3,300 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will

then be assigned by the College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Julia Cope Collins Scholarship was established by bequest of \$10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of \$31,650 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951, who died only a few years after her graduation from Bryn Mawr. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$10,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Charles E. Ellis Scholarship, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia public schools. (1909)

The Anne Long Flanagan Scholarship was established by a gift of \$29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income on this fund is to be used to provide scholarships for Protestant students. (1961)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of \$35,985 from Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest." In addition, the Corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student's tuition. The award, tenable for four years, may be as high as \$2,000 a year, depending upon demonstrated need. The award is made "on the basis of secondary

school records and reports, as well as extra-curricular activities and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the junior in need of aid who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1964-65, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and in the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship, given in memory of Katharine Houghton Hepburn of the Class of 1900, is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. The income from this Fund has been supplemented by gifts from Mrs. John H. Hislop. This scholarship, awarded to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were founded by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. The income from this fund is used for aid to a sophomore. (1901)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,000 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

Huguenot Society of America Grant. On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to \$1,000 to be used for college expenses. (1962)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Priscilla Hunt Scholarship was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-56 in the amount of \$1,000 and tenable for four years, will be awarded to a candidate from certain counties in the state of Indiana. (1955)

The Lillia Babbitt Hyde Scholarship Fund was established by a gift of \$10,000 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for students whose major subject will lead to a medical education or a scientific education in chemistry, as far as possible. (1963)

The Jane Lilley Ireson Scholarship was established by a bequest of \$227,657 under the will of Jennie E. Ireson, her daughter. The income on each \$5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Alice Day Jackson Scholarship Fund of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Alumnae Association of the Philadelphia High School for Girls. (1916)

The Misses Kirk Scholarship Fund, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$11,000 is awarded to an entering student from New England selected by the President on the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to \$5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to \$11,500, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund was established by the Class of 1944. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The Mary Frances Nunns Scholarship was established by a bequest of \$25,367 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of \$30,000 from the Class of 1922. (1963)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund now totalling \$6,666, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, Mrs. J. Campbell Harris. The income on this fund is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at \$9,317 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers) by Nancy Hough Smith. (1919, 1958-1963)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing

financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of \$50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

The Lidie C. B. Saul Scholarship, tenable for four years, is given by the Alumnae Association of the Girls' High School and Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$22,952 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

The Constance Schaar Scholarship Fund was established in 1964 by her parents and friends in memory of Constance Schaar of the Class of 1963. The Class of 1963 added their reunion gift in 1964 to this fund. (1964)

Seven College Conference Scholarships will be awarded until the autumn of 1964 by the Seven Colleges (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence tenable for four years is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and Idaho), the *central states* (Kansas, Missouri, Nebraska and Colorado), and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F. Baker Trust*. (1950) The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become

able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$7,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth P. Taylor Scholarship Fund was established by a bequest of \$10,000 from Elizabeth P. Taylor of the Class of 1921. (1961)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from *The Jacob Fussell Byrnes and Mary Byrnes Fund*, which was established in memory of her mother and father by a bequest of \$51,513 under the will of Esther Fussell Byrnes. (1948)

The Julia Ward Scholarship Fund was established by a gift of \$7,075 for a scholarship in memory of Julia Ward of the Class of 1923 by one of her friends. The income on this fund which now amounts to \$14,202 is to be used for undergraduate scholarships. (1962)

The Eliza Jane Watson Scholarship Fund was established by gifts of \$17,500 from the John Jay and Eliza Jane Watson Foundation. The income from this fund is to be used to assist one or more students as selected by the College to meet the cost of tuition. (1964)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Thomas Raeburn White Scholarships, established by a gift of \$25,000, made by Amos and Dorothy Peaslee on April 6, 1964 in honor of Thomas Raeburn White, Trustee of the College from 1907 until his death in 1959, Counsel to the College throughout these years and President of the Trustees from 1956 to 1959. The income from this Fund is to be used for scholarships to undergraduate students studying foreign languages, with preference given to those students who will be studying abroad. (1964)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Marion H. Curtin Winsor Memorial Scholarship was established by a bequest of \$10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be used for a Negro student with the right of residence in the College. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of \$3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Rebecca Winsor Evans. The scholarship is reserved for a Negro student with the right of residence in the halls of the College. (1962)

The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Ellen Winsor. This scholarship is reserved for a Negro student with the right of residence in the halls of the College. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

SCHOLARSHIPS FOR FOREIGN STUDENTS

The Chinese Scholarship comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 132). (1915)

The Gertrude Slaughter Fellowship for study abroad was established in 1964 by a bequest of \$50,000 in the will of Gertrude Taylor Slaughter of the Class of 1893. The Fellowship is to be awarded to a member of the graduating class for excellence in scholarship. (1964)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift of \$1,500 from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History

for an essay written in connection with that work. The income from this fund has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of \$100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, given by the Academy of American Poets, was first made in 1957 and renewed for five years in 1961.

The Bain-Swiggett Poetry Prize was established by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,125 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-10. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of

Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College from 1918-48. The income only from this gift is to be used. (1961)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904. From the income on the bequest of \$500 a prize is to be awarded from time to time to a student in Geology. (1963)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1959. (1938)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the

graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.

Loan Funds

BRYN MAWR COLLEGE administers two kinds of loan programs. The first consists of three funds established through the generosity of alumnae and friends of the College. Applications for loans from the three funds must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board. The funds are:

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

a. The following order of preference shall be followed in awarding such loans: to students coming from New Jersey, to students coming from Missouri, to students coming from any other location who have had not less than one year residence at the College.

b. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

c. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

d. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

e. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is \$500. No interest is charged while the student is in college. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The principal is to be repaid within five years from the time the student graduates or leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

a. The \$200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

b. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

c. The maximum amount which can be borrowed for any given academic year is \$500.

d. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire

principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

e. Loans are awarded by a committee consisting of the Dean of the College (*Chairman*), the Dean of the Graduate School and the Director of Admissions.

The second kind of loan program administered by the College is based on government funds made available through the NDEA Student Loan Program. Applications for loans must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board. Borrowers must execute an affidavit that they do not belong to or support any organization wishing to overthrow illegally the United States government and swear or affirm loyalty to the United States. Under the NDEA Student Loan Program, students may borrow up to \$1,000 each year and all loans from this source may not exceed a total of \$5,000.

Students who, upon graduation, teach in public schools are allowed cancellation of their debts at the rate of ten per cent for each year of teaching up to a maximum cancellation of fifty per cent of the total loan.

Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Pa.

Officers of the Alumnae Association

President, Mrs. Lyman Spitzer, Jr., 659 Lake Drive, Princeton, N. J.

First Vice-President, Mrs. Paul B. MacLean, 9916 Logan Drive, Potomac, Md.

Second Vice-President, Mrs. Stuart H. Carroll, 325 Pembroke Avenue, Wayne, Pa.

Recording Secretary, Mrs. George J. Lincoln, III, 1428 Old Gulph Road, Villanova, Pa.

Corresponding Secretary, Mrs. Robert A. Hammond, III, 3106 33rd Place, N.W., Washington 8, D. C.

Treasurer, Mrs. John S. Price, 824 Buck Lane, Haverford, Pa.

Chairman, Alumnae Fund, Mrs. Kenneth W. Gemmill, Five Spruce Farm, Jamison, Bucks County, Pa.

Chairman, Scholarship and Loan Committee, Mrs. Robert E. Forster, 501 Oakley Road, Haverford, Pa.

Editor, The Alumnae Bulletin, Mrs. Arthur M. Sherwood, 19 Cleveland Lane, Princeton, N. J.

Alumnae Secretary, Mrs. B. Herbert Lee, The Deanery, Bryn Mawr, Pa.

Executive Secretary, Alumnae Fund, Miss Ellenor Morris, Braefield, Chester Springs, Pa.

Alumnae Directors of Bryn Mawr College

Mrs. Willard N. Boyden, 1255 North Green Bay Road, Lake Forest, Ill.

Mrs. Charles B. Brown, 3 Joel Place, Port Washington, N. Y.

Mrs. G. Howland Chase, 2000 24th Street, N.W., Washington 8, D. C.

Mrs. Henry J. Mali, 27 East 69th Street, New York 21, N. Y.

Mrs. Nathan M. Pusey, 17 Quincy Street, Cambridge 38, Mass.

Mrs. Geoffrey S. Warren, 7236 Springfield Avenue, Prairie Village, Kans.

District Councillors

District I: Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Northern Connecticut

Mrs. N. Michael Plaut, Peg Shop Road, Keene, N. H.

District II: Southern Connecticut, New York, Northern New Jersey

Mrs. Richard H. Dana, Jr., 180 East 95th Street, New York 28, N. Y.

District IIA: Pennsylvania, Southern New Jersey, Delaware

Mrs. Kenneth R. John, 530 State Street, Lancaster, Pa.

District III: Maryland, District of Columbia, Virginia, North and South Carolina, Georgia, Alabama, Florida, Mississippi, Tennessee, Kentucky

Mrs. MacDonald Dick, 3005 Norwich Way, Durham, N. C.

District IV: Indiana, Michigan, Ohio, West Virginia

Mrs. E. Osborne Coates, Jr., 516 Sheldon Road, Grosse Pointe Shores 36, Mich.

District V: Illinois, Wisconsin, Minnesota, Iowa, North and South Dakota, Montana

Mrs. Paul C. Harper, Jr., 698 Blackthorn, Winnetka, Ill.

District VI: Texas, New Mexico, Arizona, Colorado, Oklahoma, Utah, Wyoming

Mrs. Charles W. Collier, Los Luceros, Alcalde, N. M.

District VII: Washington, Oregon, California, Nevada, Idaho, Alaska, Hawaii

Mrs. Paul D. Kolyn, 1213 Viscaino Road, Santa Barbara, Calif.

District VIII: Missouri, Arkansas, Kansas, Nebraska, Louisiana

Mrs. J. Peter Schmitz, 6800 Kingsbury Street, St. Louis 30, Mo.

Officers of Alumnae Groups and College Representatives

<i>Alabama</i>	
Dothan	Mrs. David Wilson, 1101 Glenwood Road
<i>Arizona</i>	
Tucson	Mrs. William A. Belden, Route 2, Box 805-A, 15
<i>Arkansas</i>	
Hot Springs	Mrs. James H. Chesnutt, 118 Cheswood Drive
<i>California, Northern</i>	
Greenbrae	Mrs. Robert B. Gordon, 30 Corte Patencio
<i>California, Southern</i>	
Chula Vista	Mrs. Paul Thompson, 1060 Los Bancos Court
Pacific Palisades	Mrs. Victor Troxell, 1144 Iliff Street
Santa Barbara	Mrs. Paul D. Kelyn, 1213 Viscaino Road
<i>Colorado</i>	
Denver	Mrs. Kenneth R. Blum, 2583 South Dexter Street, 22 Mrs. John B. Bunker, 100 Vine Street Mrs. Herbert S. Gaskill, 250 Ash Street
<i>Connecticut</i>	
Canton	Mrs. William T. Bissell, Old Canton Road
New Canaan	Mrs. T. Guthrie Speers, Jr., 32 North Main Street
Westport	Mrs. Alexander B. Adams, 22 Newtown Turnpike
Woodbridge	Mrs. Elisha Atkins, Westward Road
<i>Delaware</i>	
Wilmington	Mrs. Charles J. Aydelotte, Jr., 702 Greenhill Avenue, Wawaset Park, 5 Mrs. Richard L. Jones, 11 Harlech Drive, 7
<i>District of Columbia</i>	
Washington	Mrs. G. Howland Chase, 2000-24th Street, N.W., 8 Mrs. Frank Hammond, 4851 Tilden Street, N.W., 16 Mrs. Robert A. Hammond, III, 3106 - 33rd Place, N.W., 8
<i>Florida</i>	
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Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

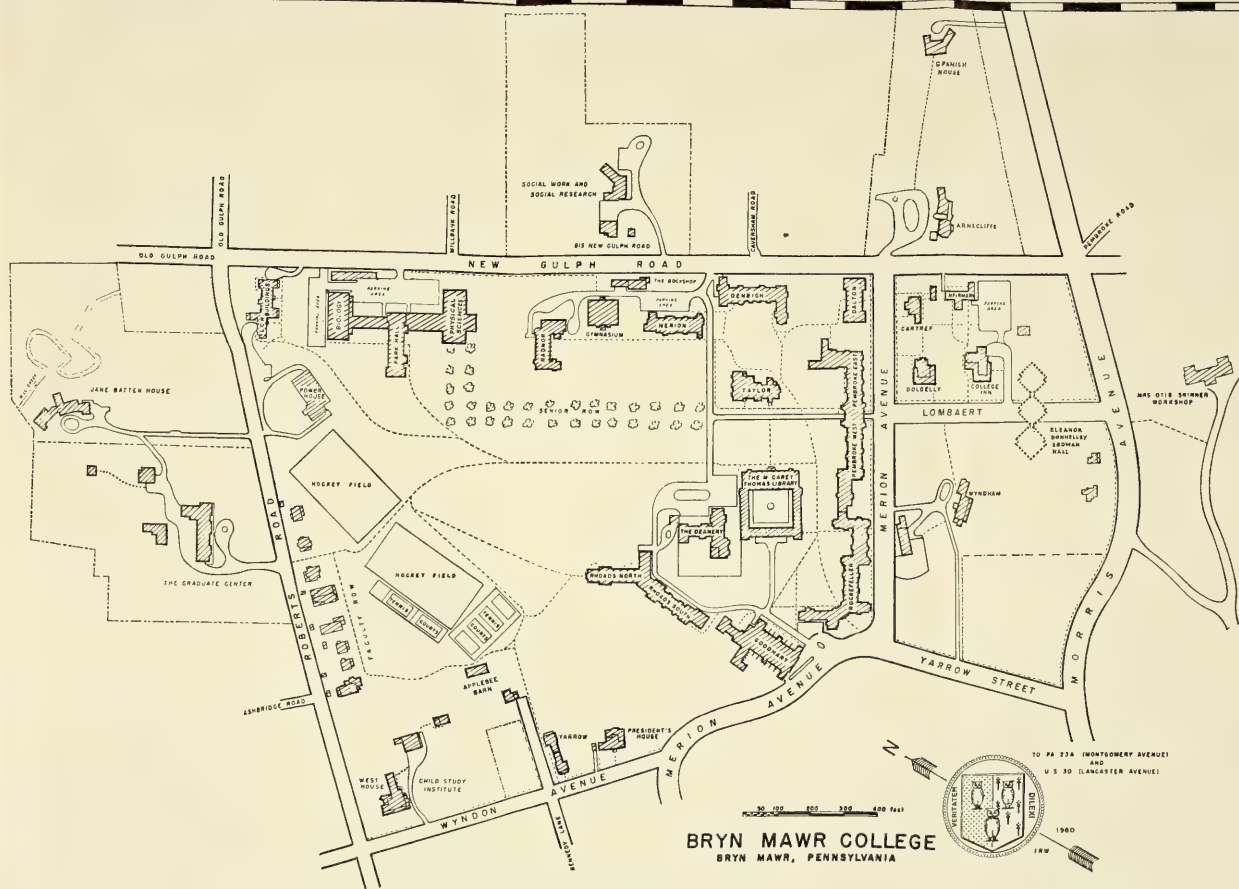
By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked "Ardmore-Chester" to Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues. Continue for one block to Yarrow Street which borders the campus.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.



Printed by GEORGE H. BUCHANAN CO., Phila., Pa. 19106

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